

Fig.1

FIG. 2

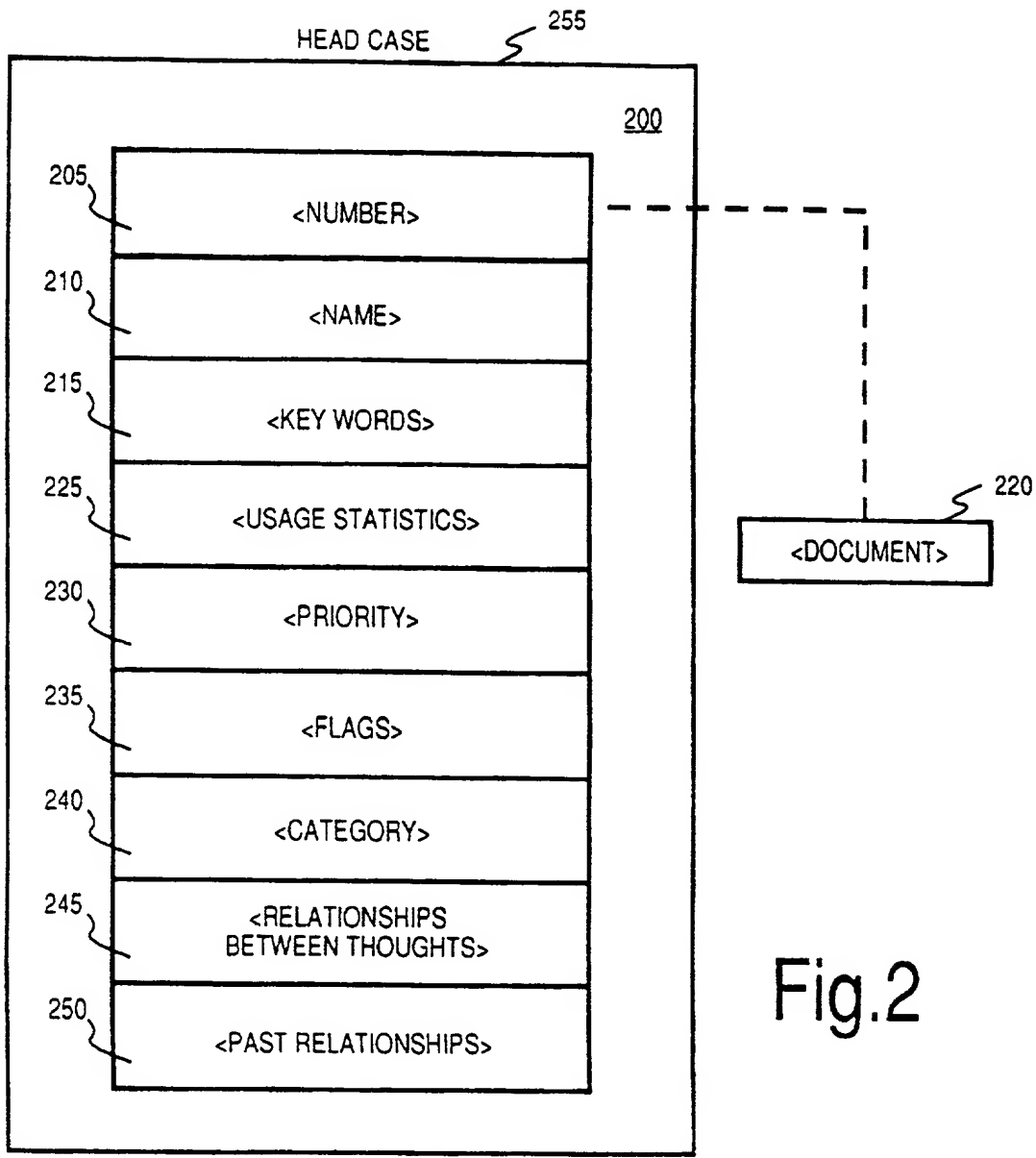


Fig.2

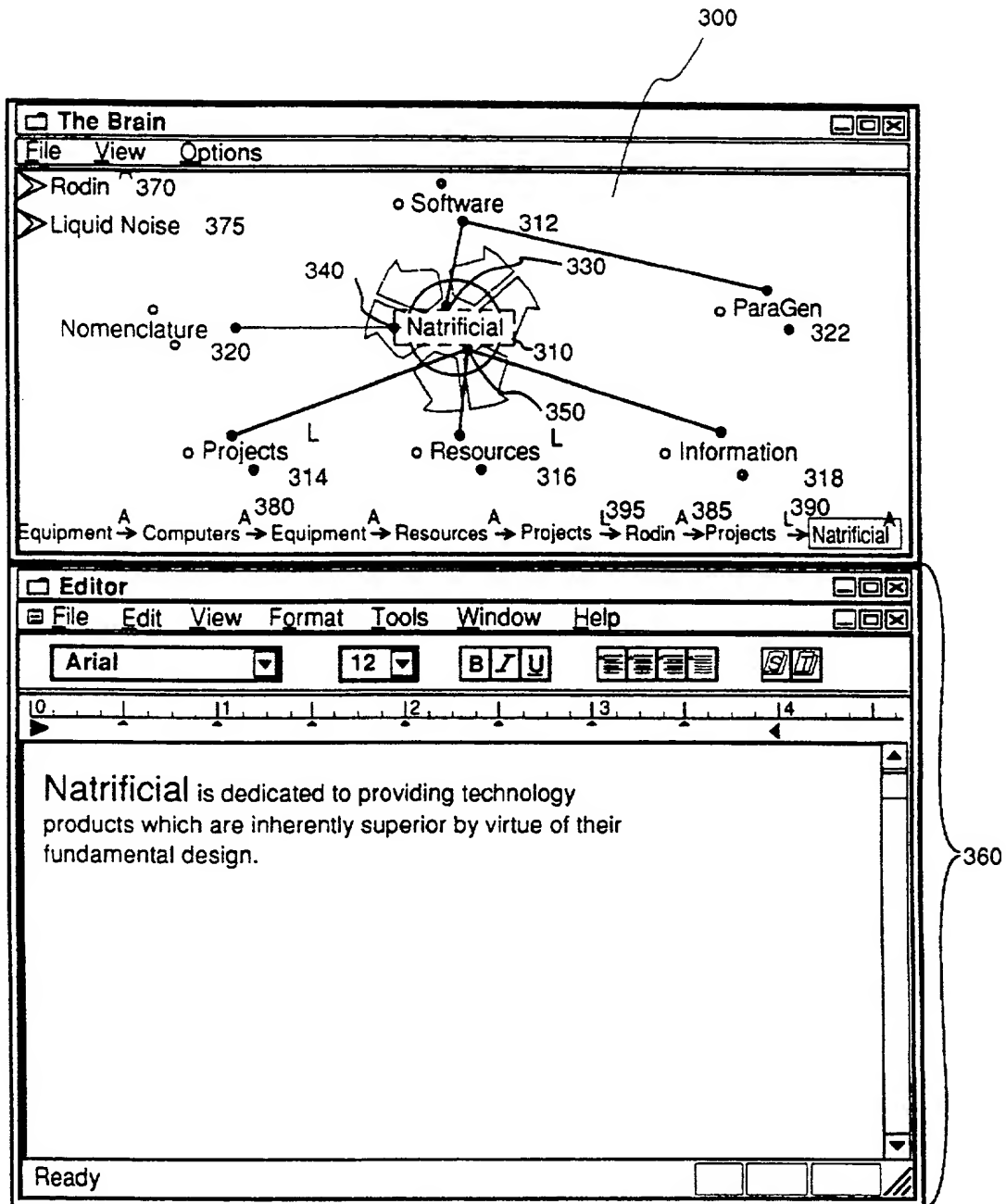


Fig. 3

The screenshot displays two overlapping windows from a vintage operating system.

The top window, titled "The Brain", features a menu bar with "File", "View", and "Options". It contains a network diagram with a central node labeled "Software" inside a gear-like shape. Lines radiate from this central node to several peripheral nodes: "Companies" (top), "Fashion" (top right), "Design" (middle right), "Natrifical" (bottom right, labeled "L"), "ParaGen" (bottom left, labeled "322"), and "312" (middle right). A path is highlighted at the bottom: $\rightarrow \text{Computers} \xrightarrow{A} \text{Equipment} \xrightarrow{A} \text{Resources} \xrightarrow{A} \text{Projects} \xrightarrow{A} \text{Rodin} \xrightarrow{A} \text{Projects} \xrightarrow{A} \text{Natrifical} \xrightarrow{L} \text{Software}$.

The bottom window, titled "Editor", has a menu bar with "File", "Edit", "View", "Format", "Tools", "Window", and "Help". Its toolbar includes a font dropdown set to "Arial", a size dropdown set to "12", and buttons for bold (B), italic (I), and underline (U). Below the toolbar is a horizontal ruler with markings from 10 to 14. The main area of the editor is a large, empty white space. The status bar at the bottom left shows the word "Ready".

Fig. 4

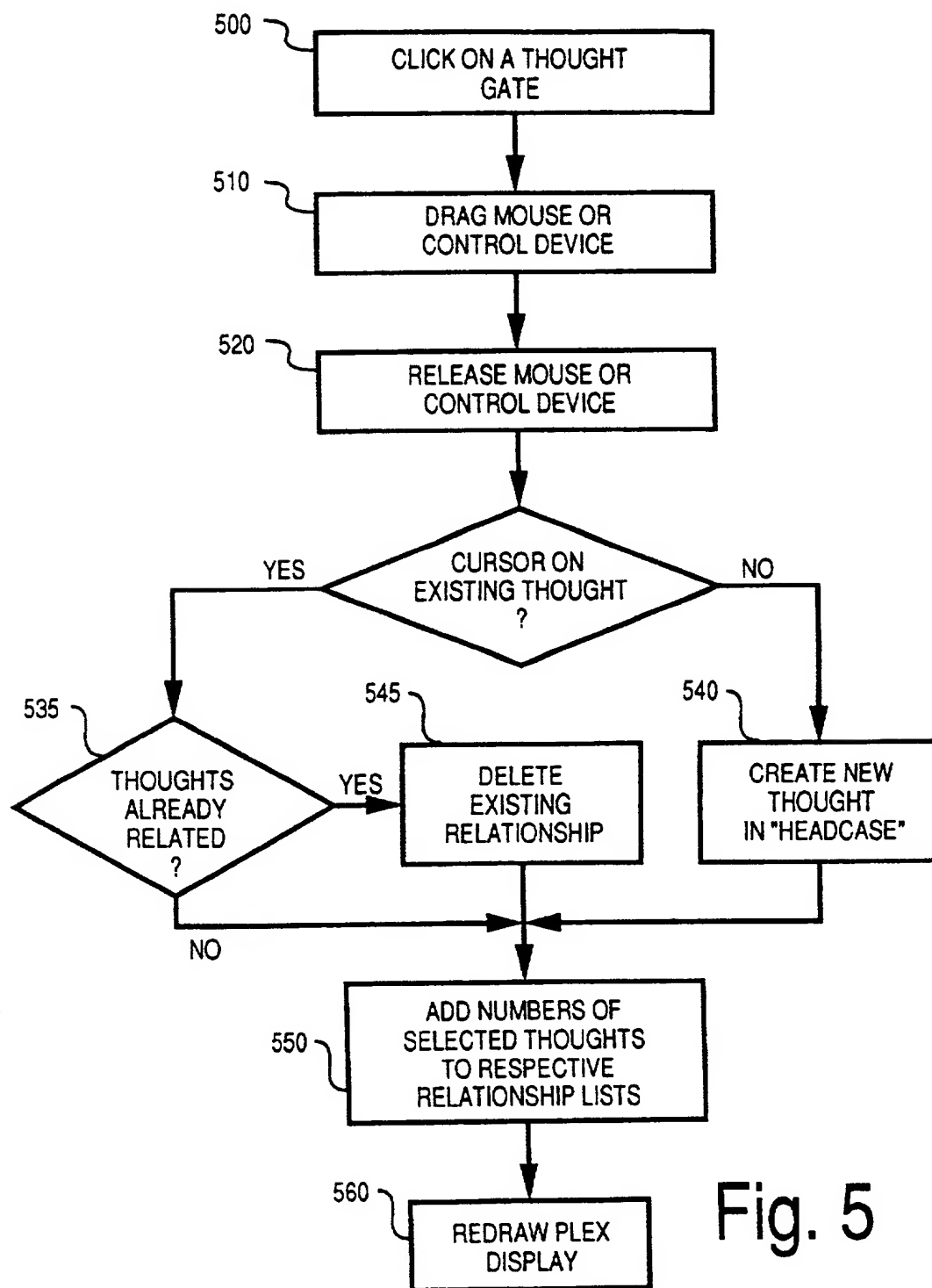


Fig. 5

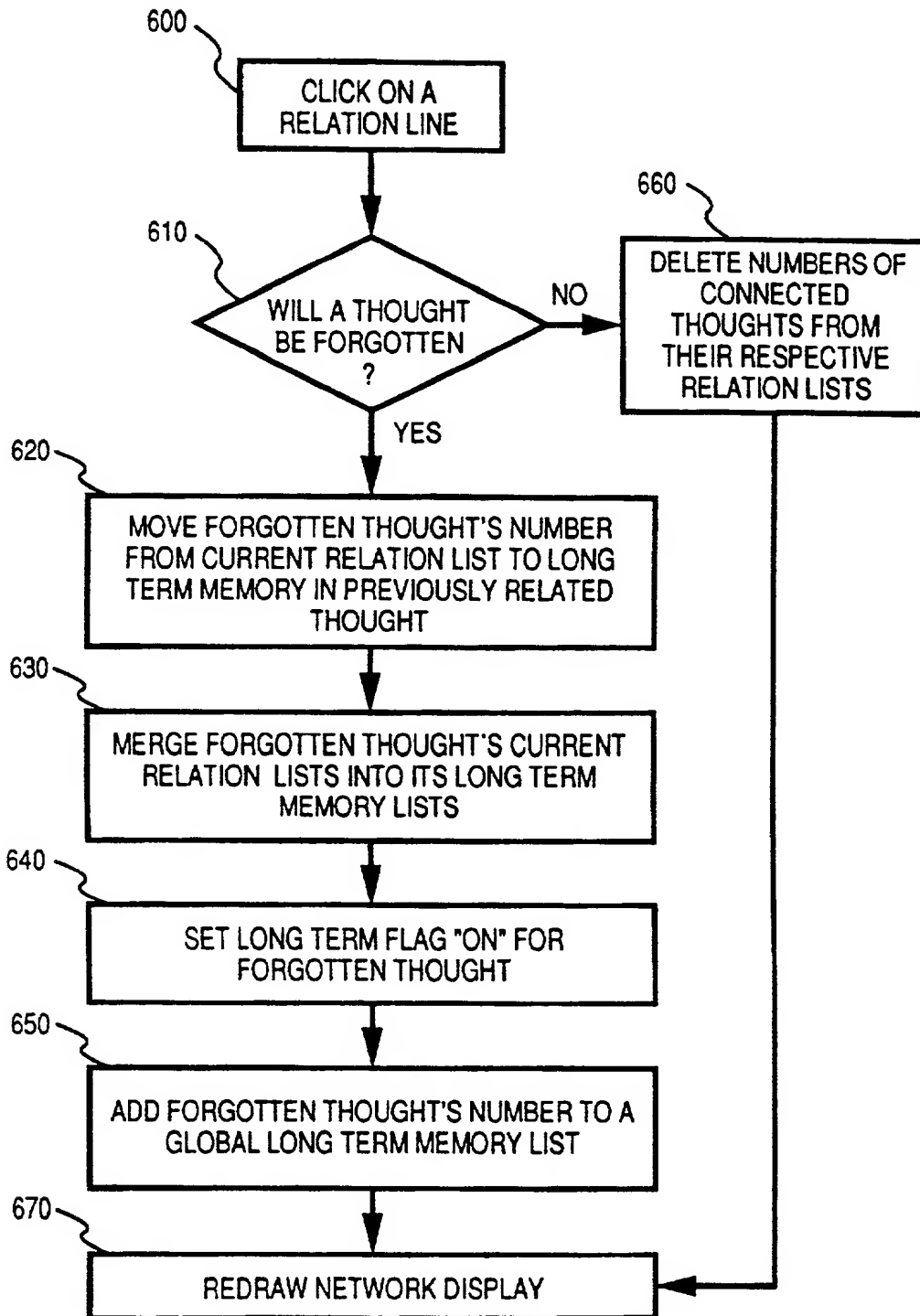


Fig. 6

710

Properties

Name: Natrifical

Key Words: software brain metaphors thought innovative

Category: Company Categories

Time Information

Created: May 30, 96, 09:57:13 PM

Modified: May 30, 96, 09:57:13 PM

Total Time: 0 days 01:06:58 History

OK

Fig. 7

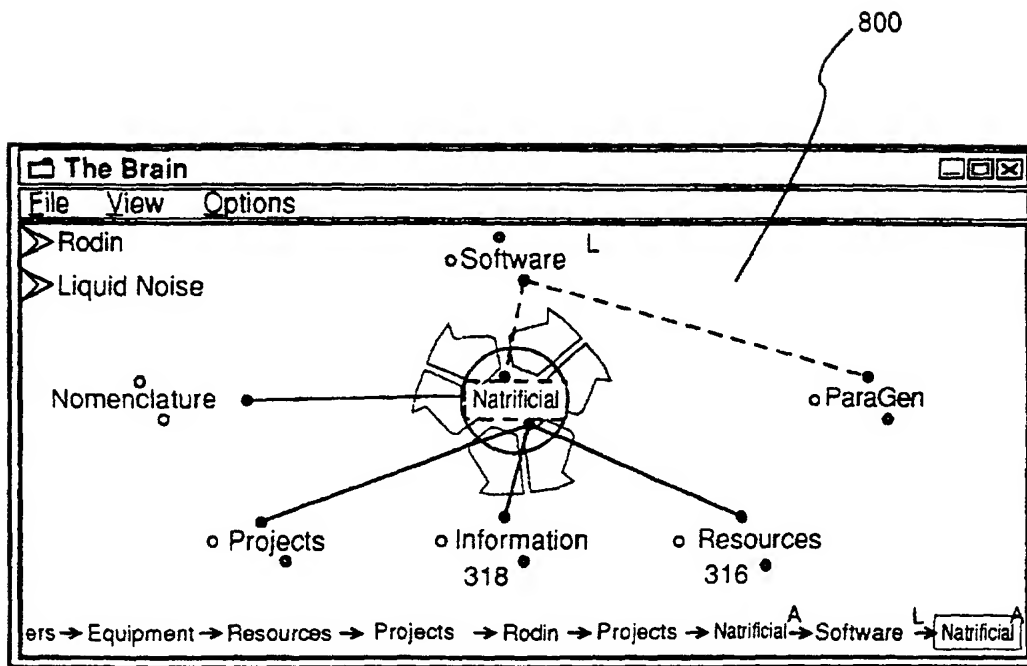


Fig. 8

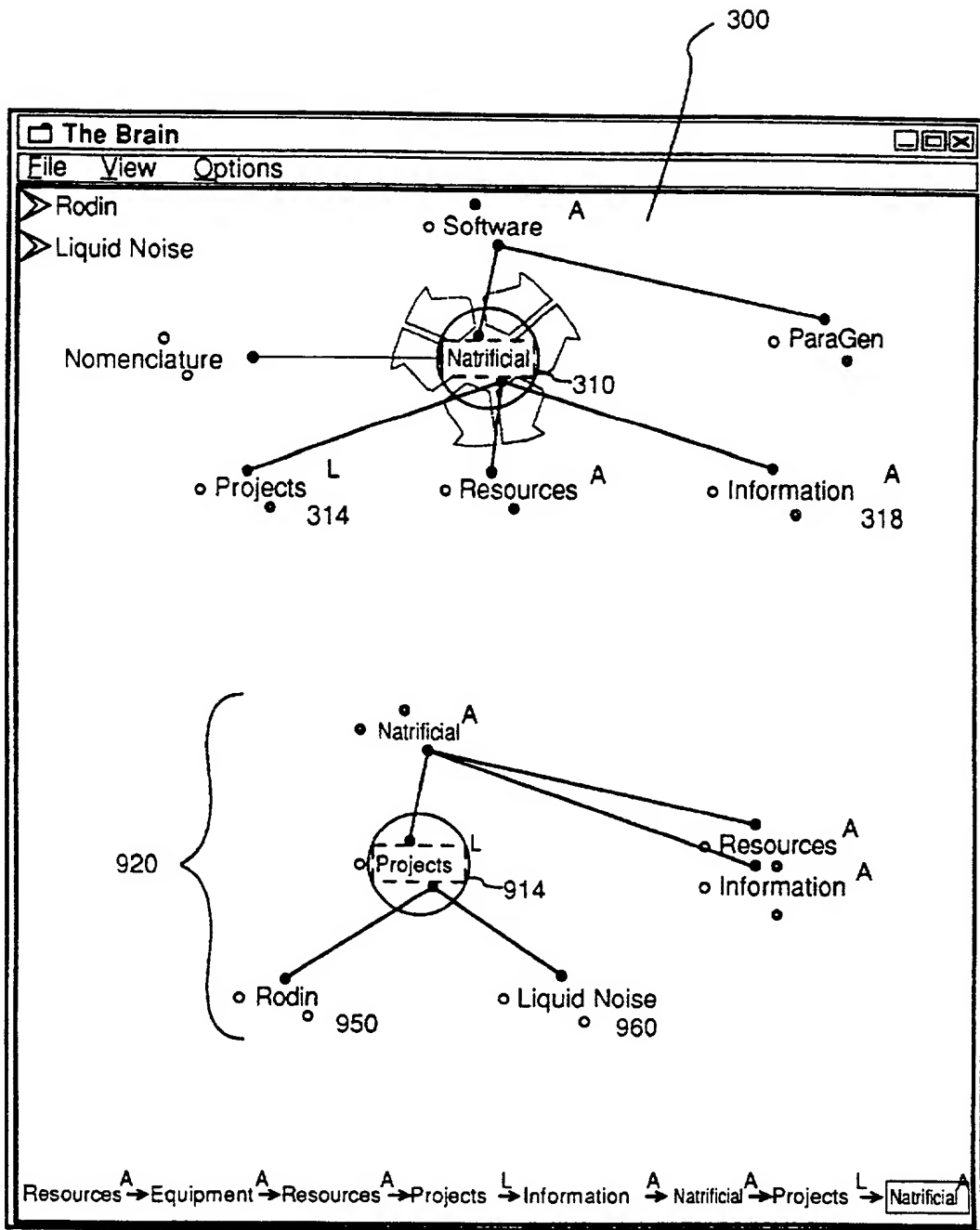


Fig. 9

```

boolean CheckForIsolation(int centralThought, int targetThought)
{
    // this function checks if centralThought is related to targetThought
    // via any of targetThought's relations (not directly)

    // remove centralThought as a direct relation from targetThought
    RemoveRelation(targetThought, centralThought);

    // create an empty thought list to keep track of the search
    intList searchList = CreateEmptyList();

    // start recursive searches on each of targetThought's direct relations
    int relation = GetFirstRelation(targetThought);
    boolean found;
    do {
        found = Search(relation, centralThought, searchList);
        if(found) {
            // centralThought was found, no need to search any further
            break;
        }
        // this loop will end when there are no more relations
    } while(relation = GetNextRelation(targetThought));

    // add centralThought back onto target as a relation
    AddRelation(targetThought, centralThought);

    return found;
}

```

Fig. 10a

```

boolean Search(source, dest, searchList)
{
    if(Find(source, searchList)) {
        // source has already been searched
        return FALSE;
    }

    // add source to the searchList
    Add(source, searchList)

    if(source == dest) {
        // this is the destination, we have found it
        return TRUE;
    }

    // recursive searches on each of sources direct relations
    int relation = GetFirstRelation(source);
    boolean found;
    do {
        found = Search(relation, dest, searchList);
        if(found) {
            // centralThought was found, no need to search any further
            break;
        }
        // this loop will end when there are no more relations
    } while(relation = GetNextRelation(targetThought);

    return found;
}

```

Fig. 10b

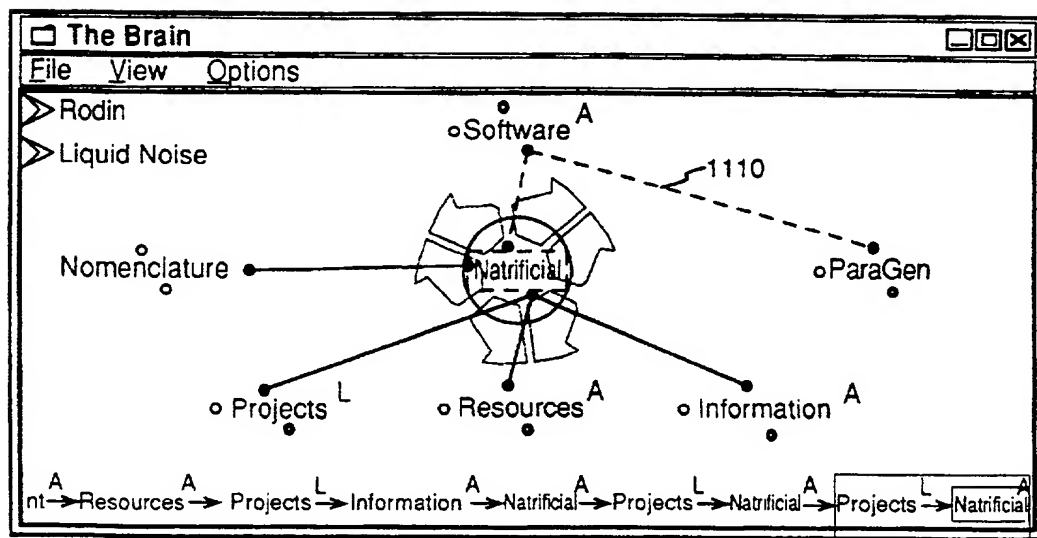


Fig. 11

Create Train of Thought
1120

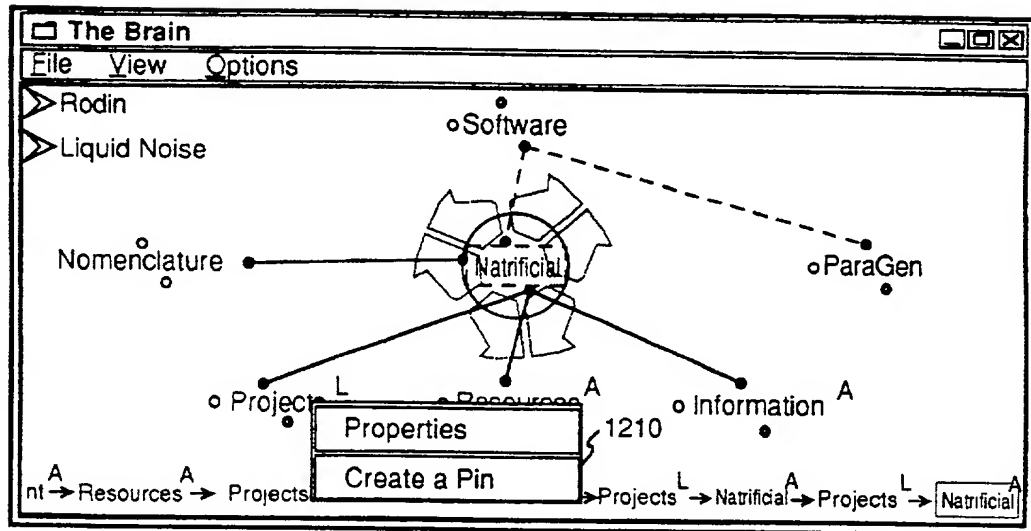


Fig. 12

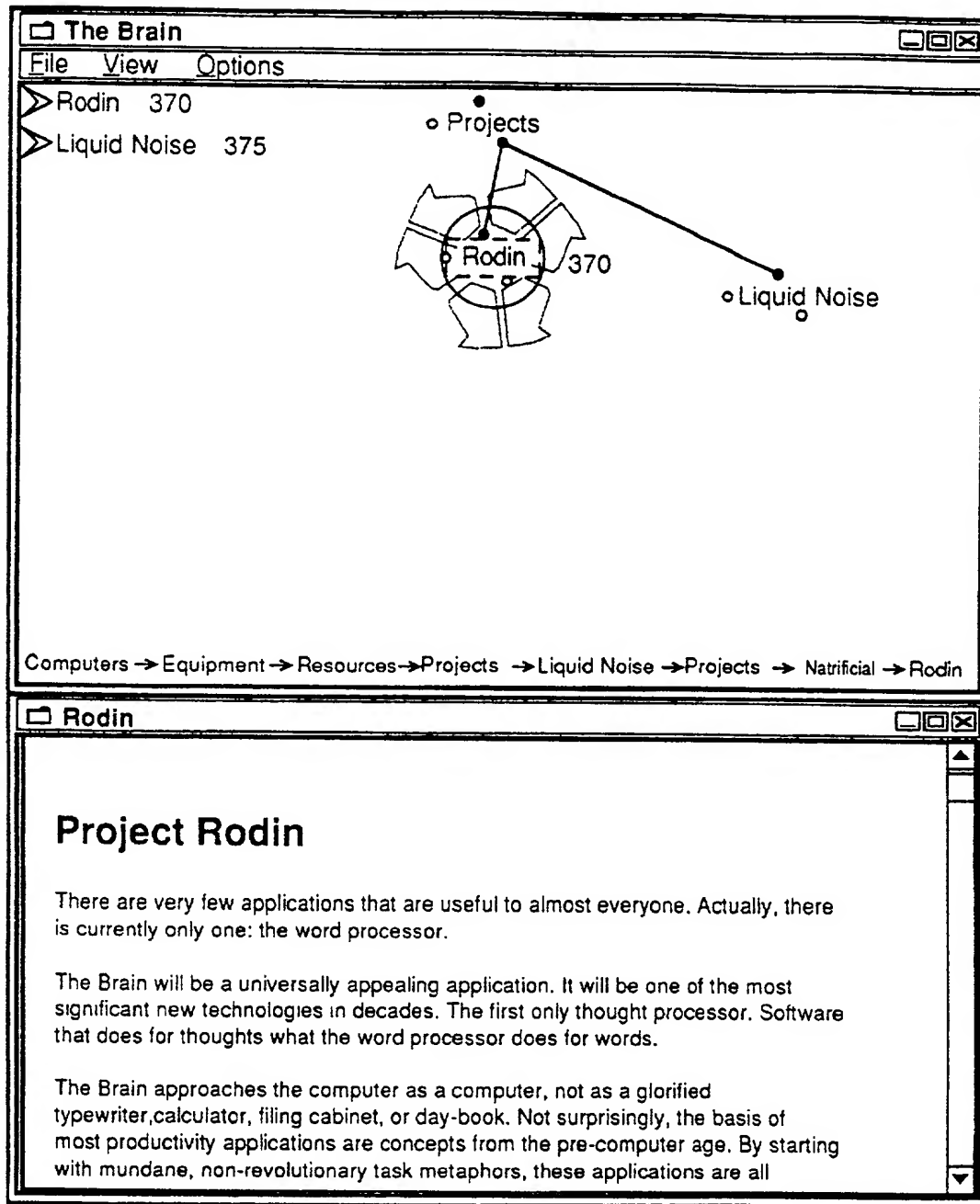
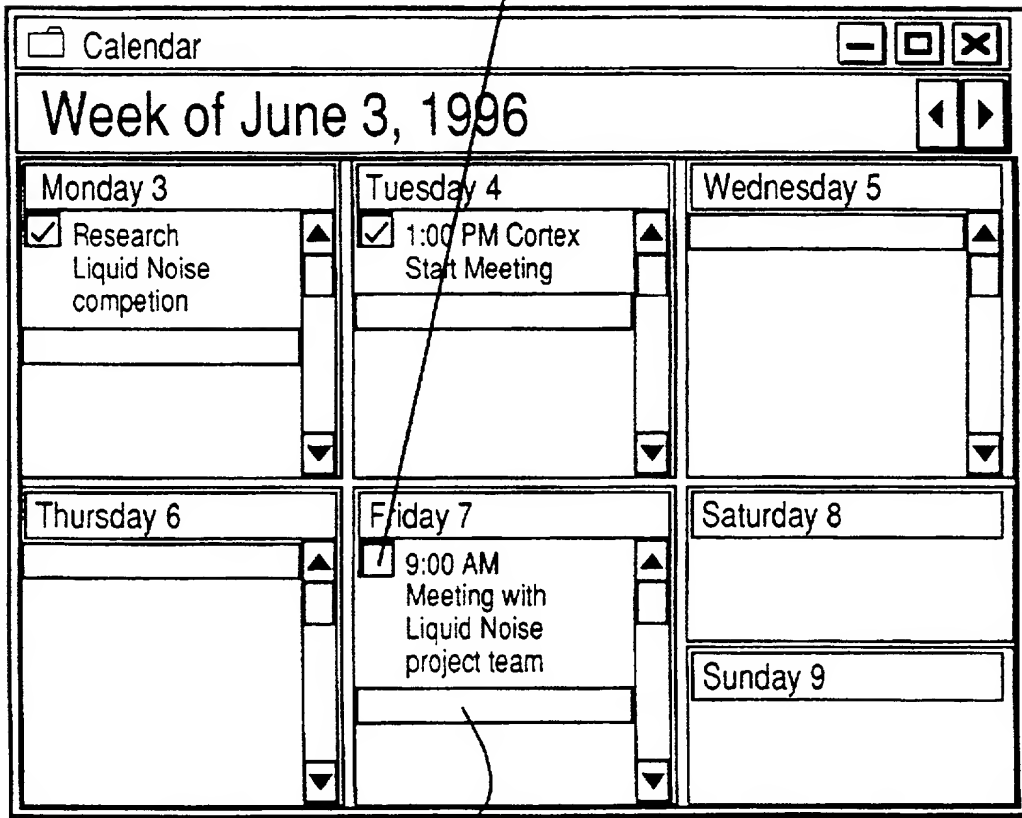
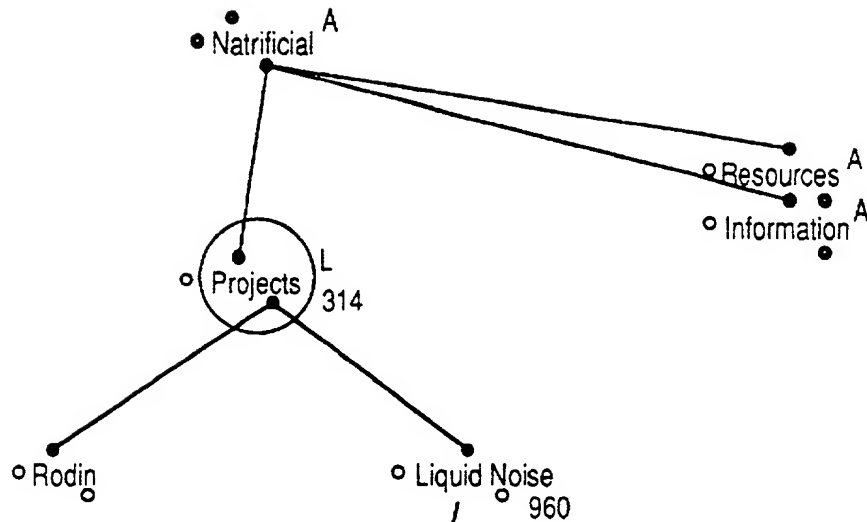


Fig. 13



1510

Fig. 15

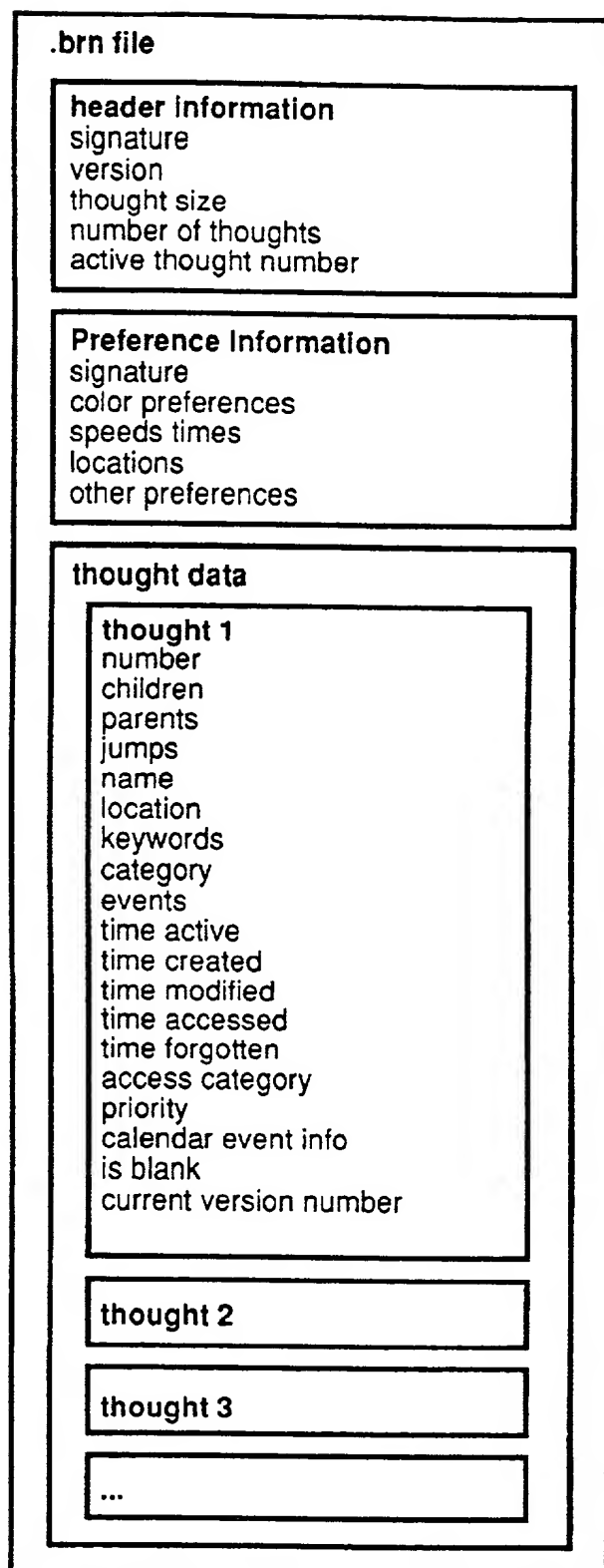


Fig. 16

```

ForgetThought (fNum)
{
    // mark all the children of the selected thought
    list.Clear();
    MarkChildren(fNum, list);
    // unmark the active thought
    list.RemoveThought(activeThought);
    // unmark thoughts with unmarked parents
    lNum = list.GetFirstNum();
    while(lNum != 0)
    {
        if(lNum != fNum) // don't unmark the selected thought
        {
            pNum = GetFirstThoughtParent(lNum);
            while(pNum != 0)
            {
                if(list.Contains(pNum) == FALSE)
                {
                    if(IsThoughtInLongTermMemory(pNum) == FALSE)
                    {
                        // unmark all the children of the unmarked parent
                        childList.Clear();

                        MarkChildren(pNum, childList);
                        list.RemoveList(childList);
                    }
                }
                pNum = GetNextThoughtParent(lNum);
            }
            lNum = list.GetNextNum();
        }
        // now forget all the thoughts left on the list
        lNum = list.GetFirstNum();
        while(lNum != 0)
        {
            ForgetThought(lNum);
            lNum = list.GetNextNum();
        }
    }
}

RememberThought (rNum)
{
    // mark all the children of the selected thought
    list.Clear();
    MarkChildren(rNum, list);
    // remember all the thoughts on the list
    lNum = list.GetFirstNum();
    while(lNum != 0)
    {
        RememberThought(lNum);
        lNum = list.GetNextNum();
    }
}

MarkChildren(num, list)
{
    list.AddThought(num);
    cNum = GetFirstChild(num);
    while(cNum != 0)
    {
        MarkChildren(cNum, list);
        cNum = GetNextChild(num);
    }
}

```

FIG. 17

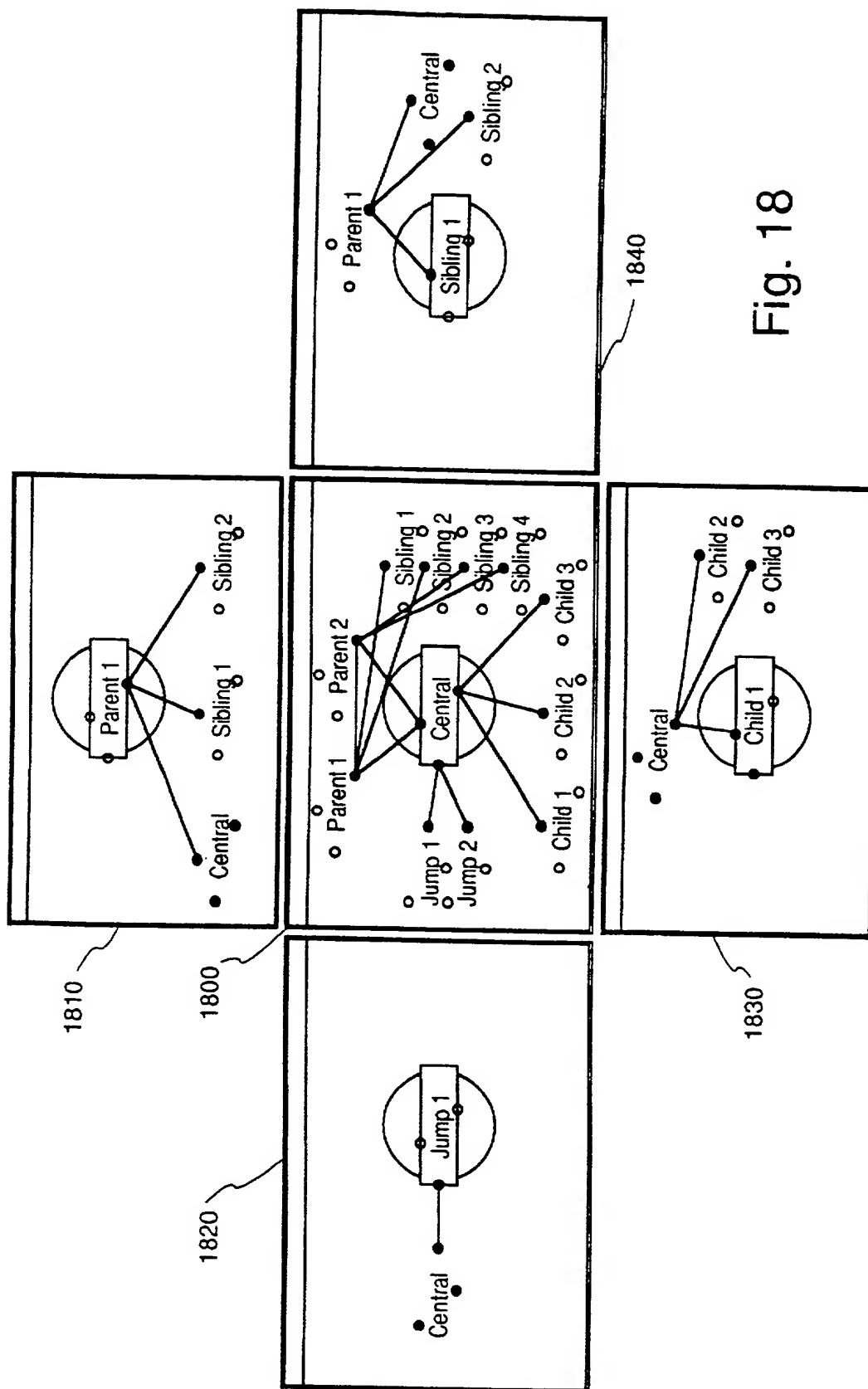


Fig. 18

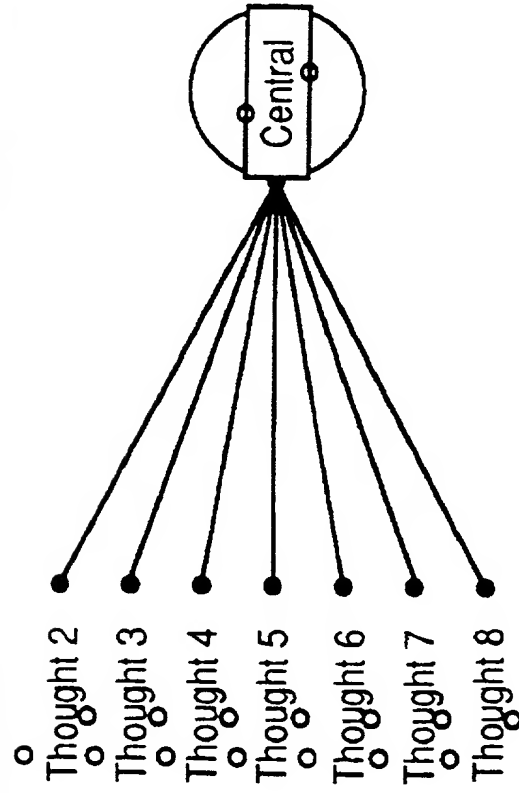


Fig. 19

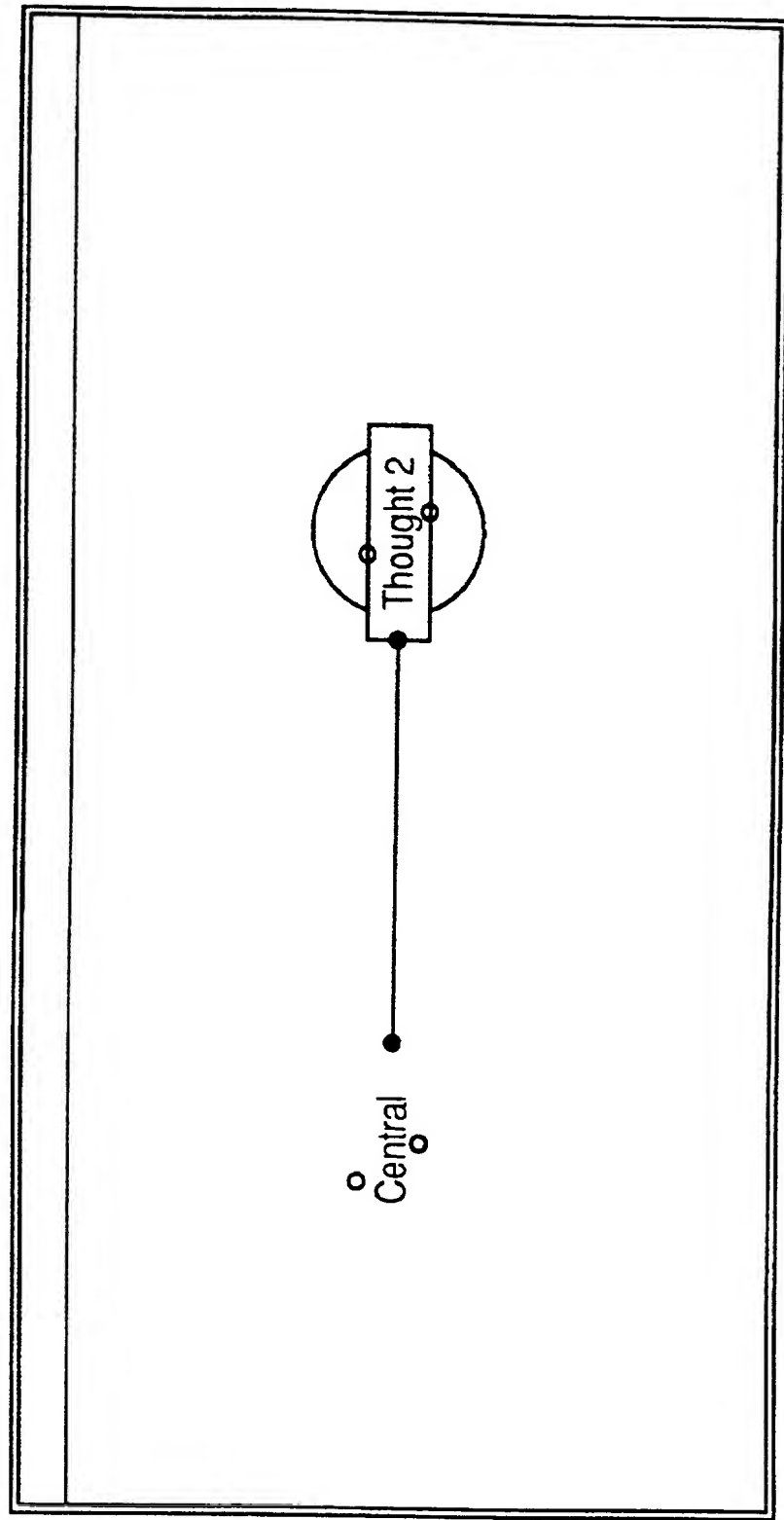


Fig. 20

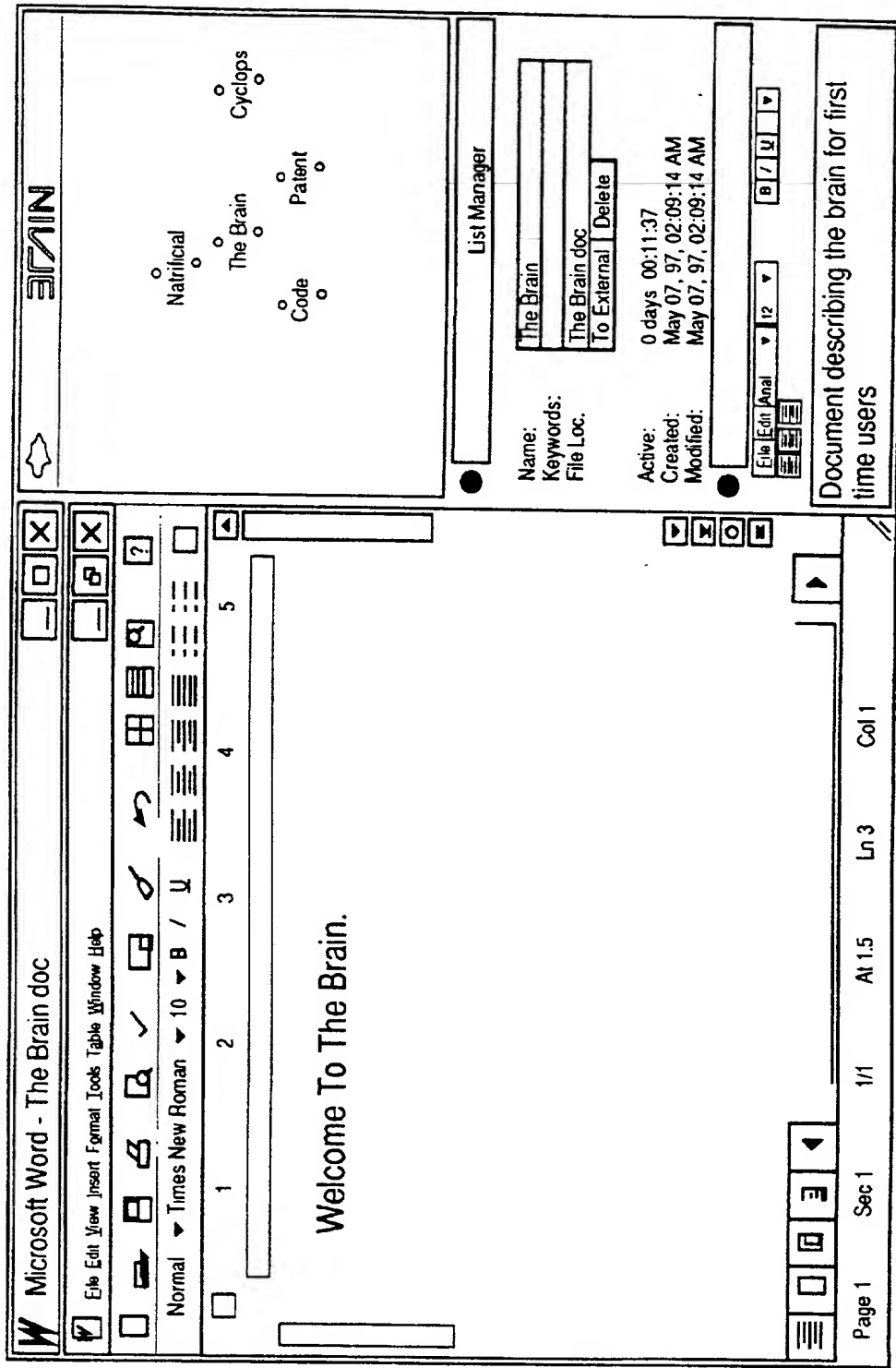


Fig. 21

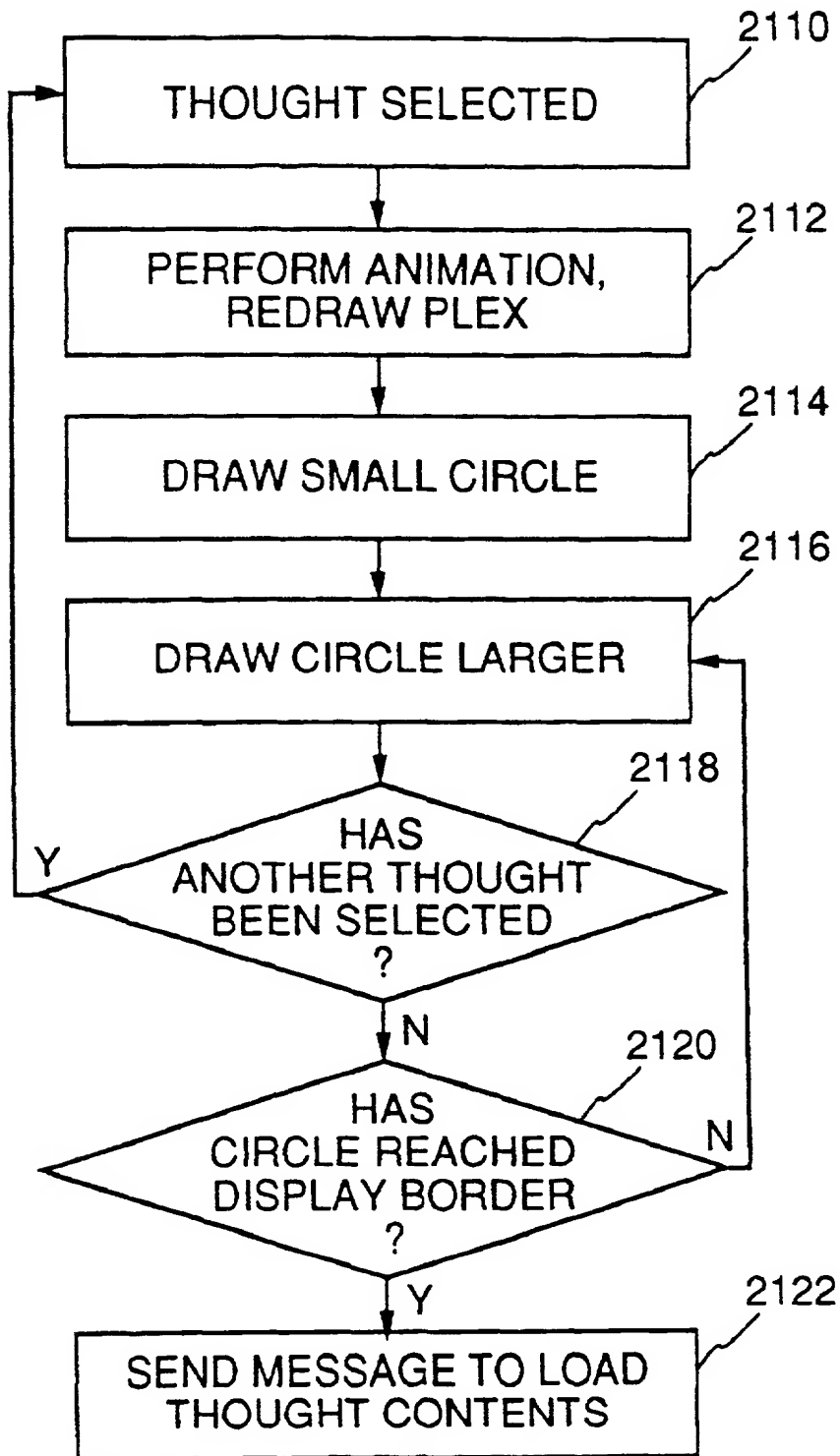


Fig. 22

Algorithm for drawing the plex with distant thoughts

1. Create a list of thoughts to be drawn and their screen locations:
 2. Add the central thought to the list.
 3. Add children to the list.
 4. Add parents to the list.
 5. Add jumps to the list.
 6. Add siblings to the list, checking first that they are not already on the list.
 7. Add distants of children to the list, checking first that they are not already on the list.
 8. Add distants of parents to the list, checking first that they are not already on the list.
 9. Add distants of jumps to the list, checking first that they are not already on the list.
 10. Add distants of siblings to the list, checking first that they are not already on the list.
11. Draw the lines that connect each thought:
 12. For each item in the list:
 13. Get each item in the list:
 14. If the two items are related, draw lines between them from and to the appropriate gates.
15. Draw the distant thoughts:
 16. For each item in the list:
 17. If it is a distant thought, draw it.
18. Draw the other thoughts:
 19. For each item in the list:
 20. If it is not a distant thought, draw it.

Fig. 23


```

// the non recursive method for searching thoughts
// tries to find a route from nSrc to nDest other than a direct relation
// returns TRUE if found
boolean Search(int nSrc, int nDest)
{
    //create the lists
    ThoughtList posList;    //list of thoughts that possibly connect
    ThoughtList notList;    //list of thoughts that do not connect
    //empty the lists
    posList.Initialize();
    notList.Initialize();

    //add the source to the not list since we cannot go directly
    //to the destination,
    notList.Add(nSrc);

    //since we cannot go directly to the destination,
    //add all relates except the destination to the possible list
    Thought src(nSrc);
    for(int n = 0;;n++)
    {
        int nRel = src.GetRelate(n);
        if(!nRel)
        {
            //no more relations, done
            break;
        }
        if(nRel != nDest)
        {
            //add it to the possibly connect list
            posList.Add(nRel);
        }
    }

    while(TRUE)
    {
        //check the first possibility
        int nTest = posList.GetFirst();
        if(!nTest)
        {
            //nothing on the list, done
            break;
        }
        Thought test(nTest);
        if(test.IsRelated(nDest))
        {
            //this one is related to the destination, we're done
            return TRUE;
        }
        // does not connect, add it to the does not connect list
        notList.Add(nTest);
        // add all related thoughts except those already checked to
        // possible list for
        for(int n = 0;; n++)
        {
            int nRel = test.GetRelate(n);
            if(!nRel)
            {
                //no more relations, done
                break;
            }
            if(!notList.Exists(nRel))
            {
                //not checked yet, add to possible list
                posList.Add(nRel);
            }
        }
        //remove this one from the possible list
        posList.Remove(nTest);
    }
    //we've checked everything there is no other way to get from
    //nSrc to nDest
    return FALSE;
}

```

Fig. 24

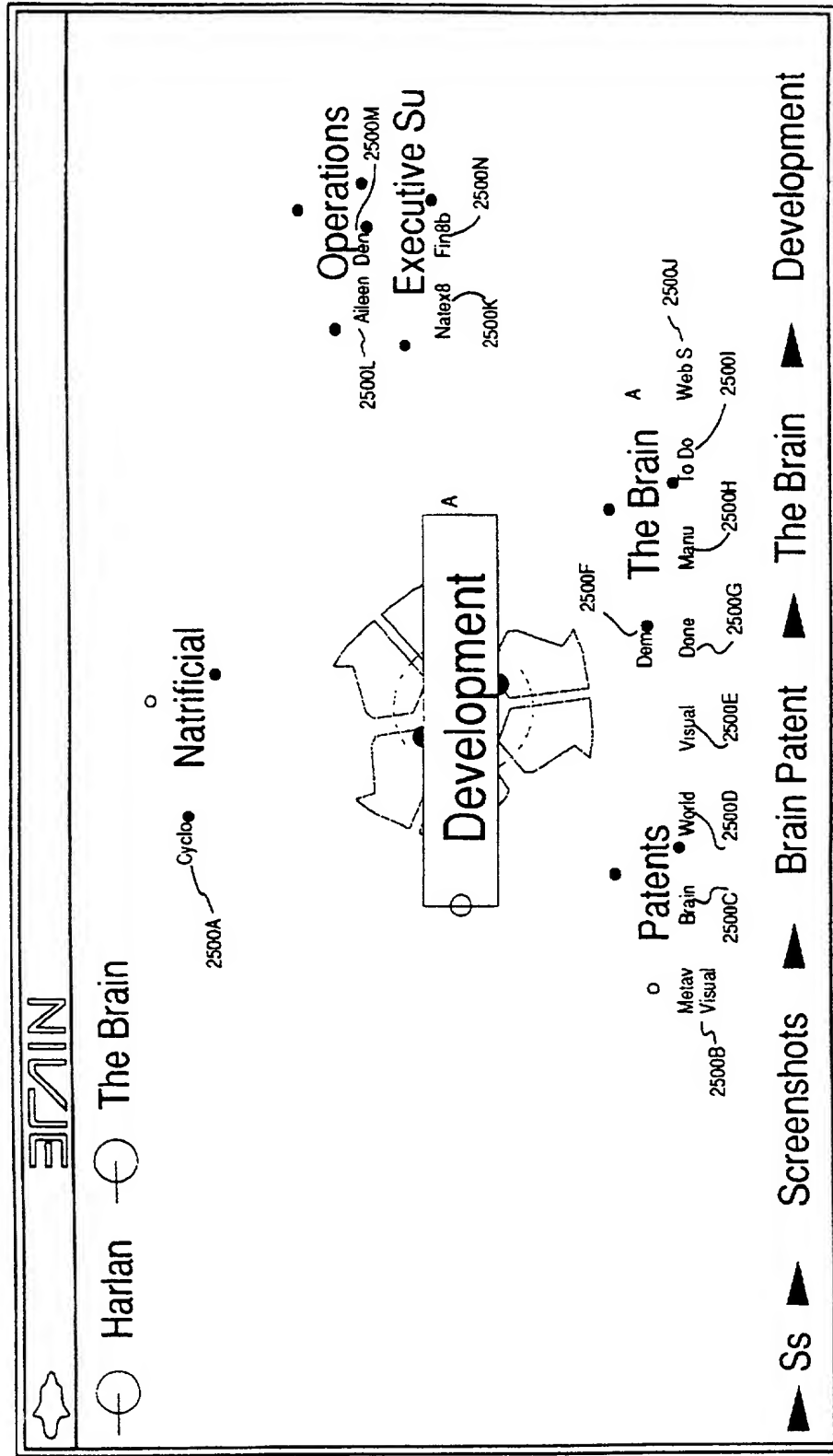


Fig. 25

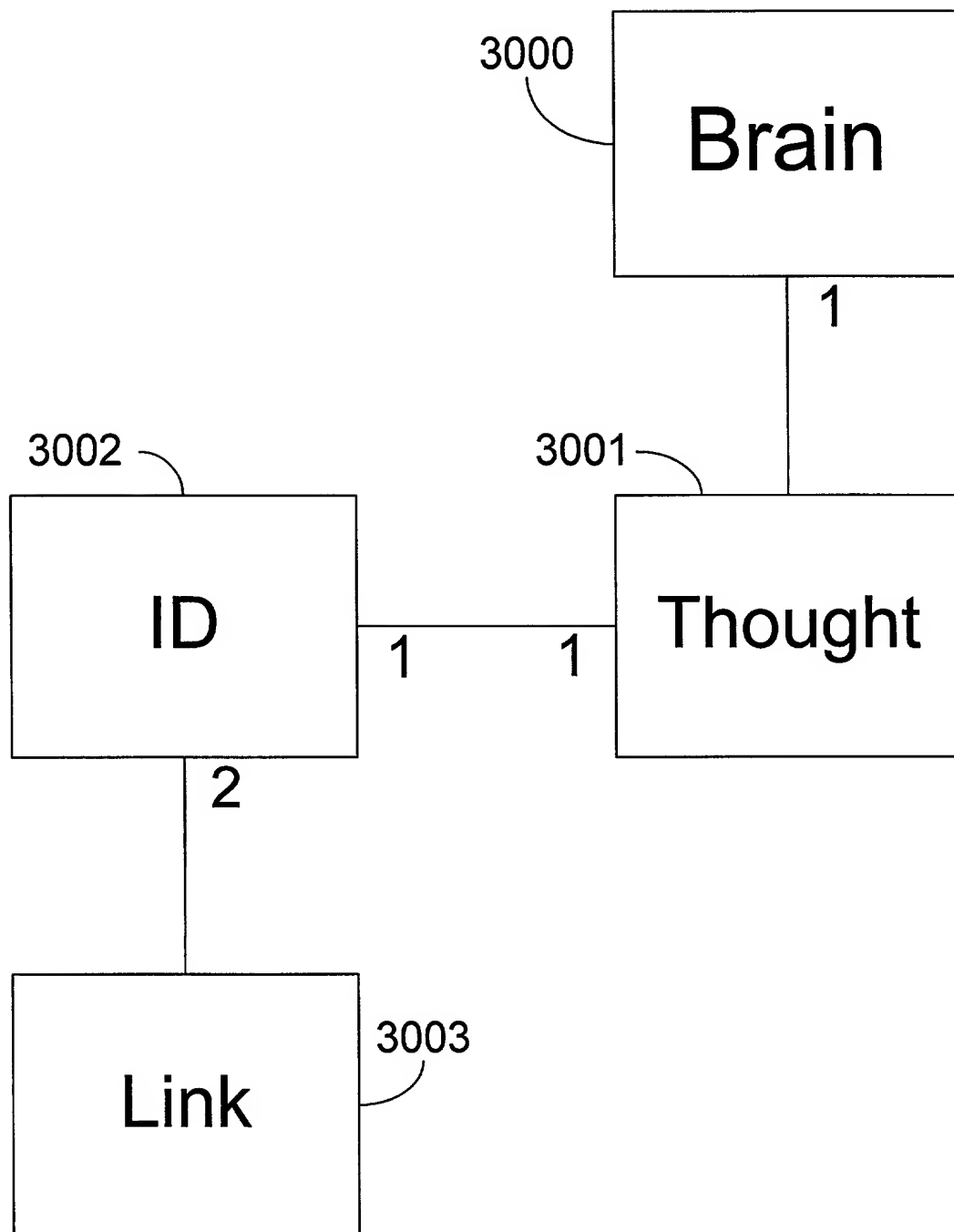
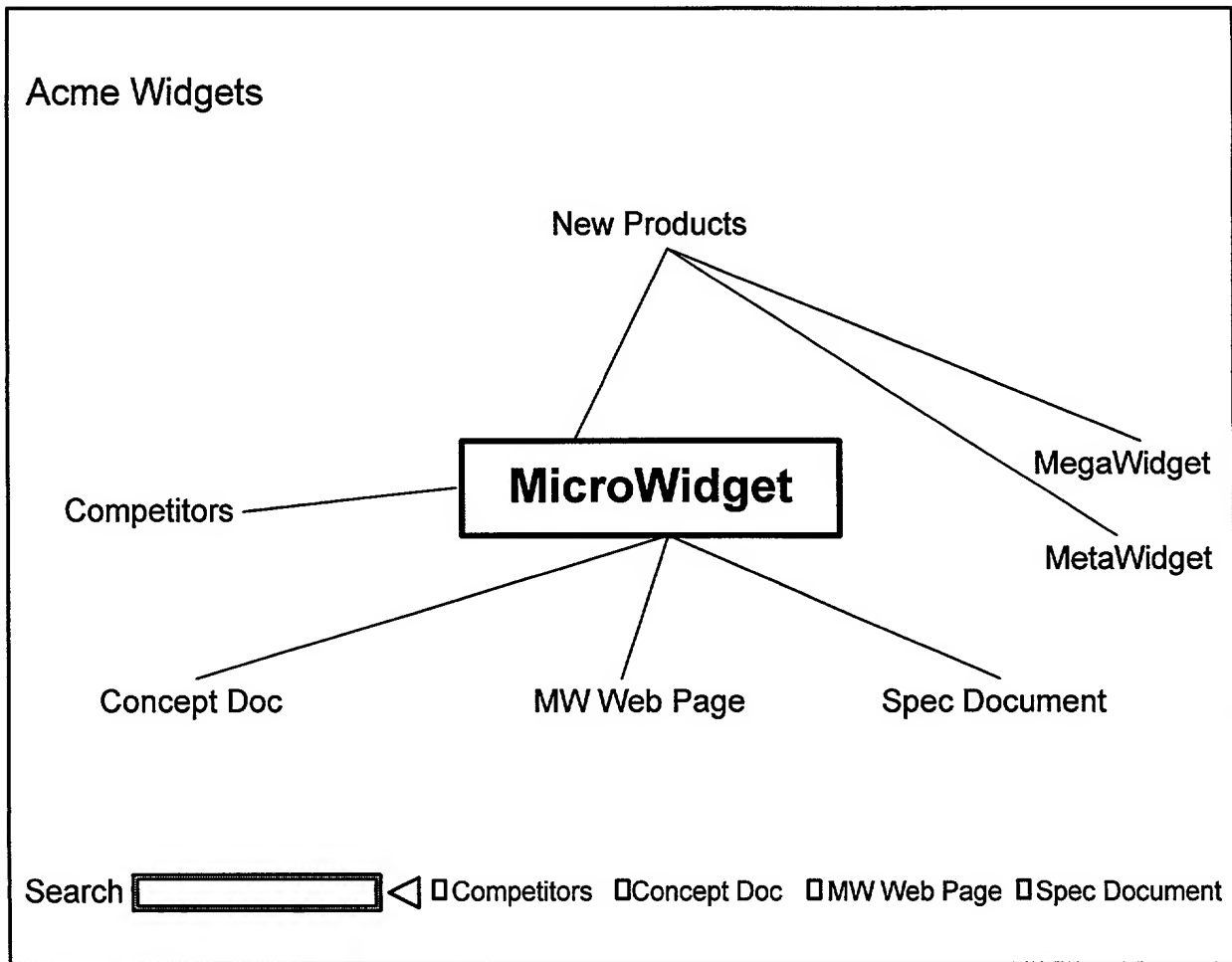


FIG. 26



Select

Thoughts	▼
Thoughts	
Links	

 where

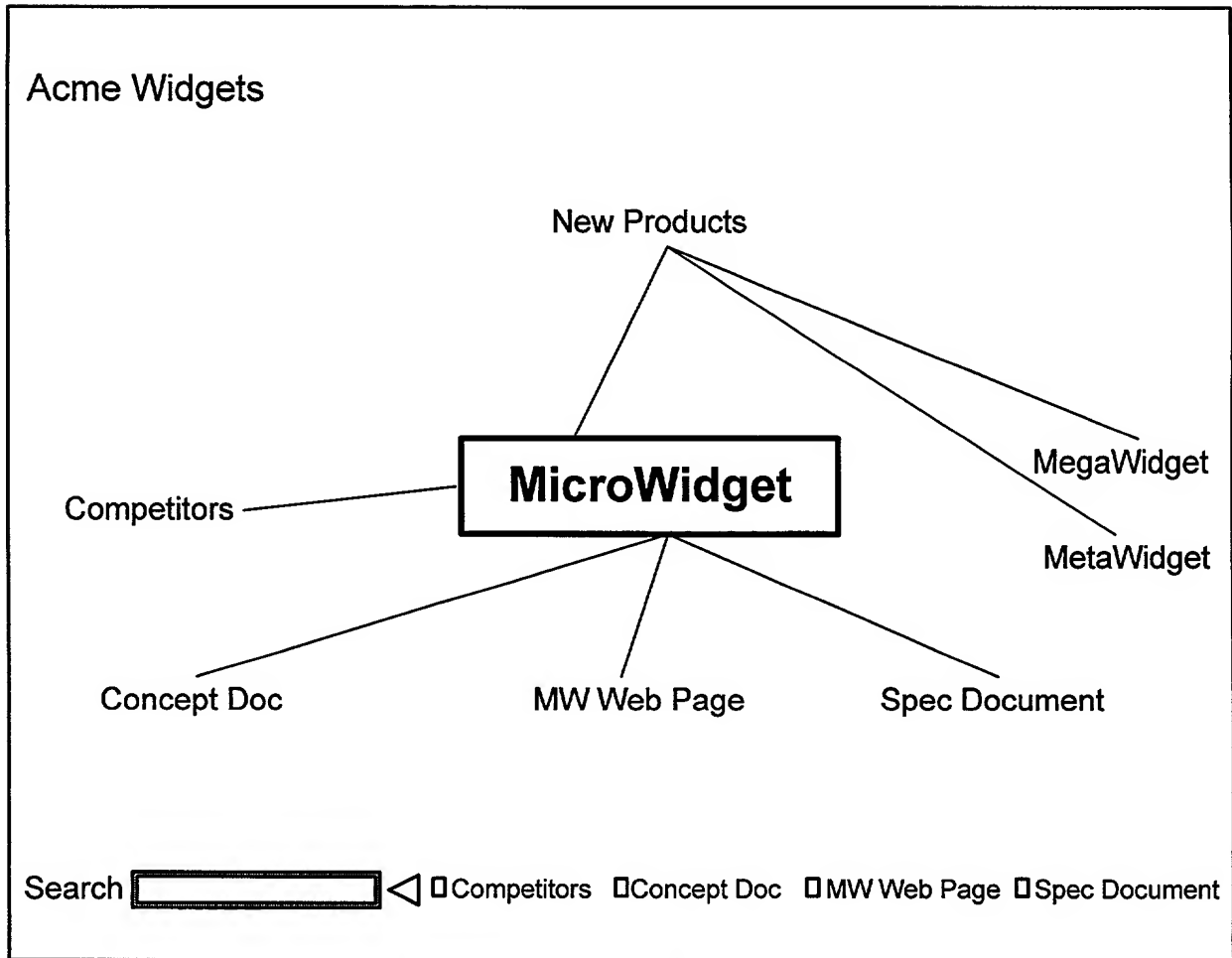
	▼
--	---

	▼
--	---

	▼
--	---

	▼
--	---

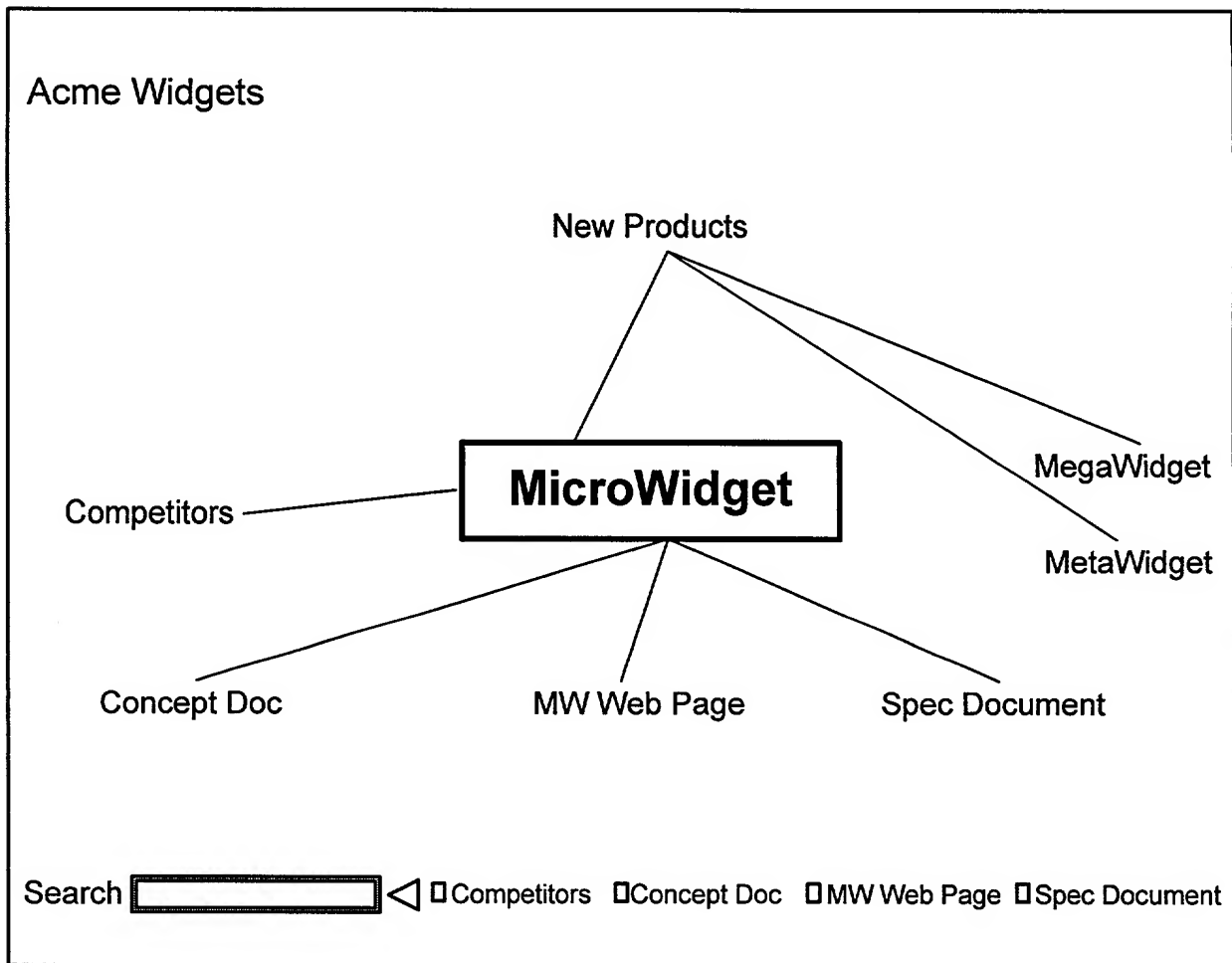
FIG. 27



Select where

Thought Names
Thought Keywords
Thought Files

FIG. 28



Select where

End With	<input type="text"/>	<input type="text"/>
Start With		
Contain		
End With		

FIG. 29

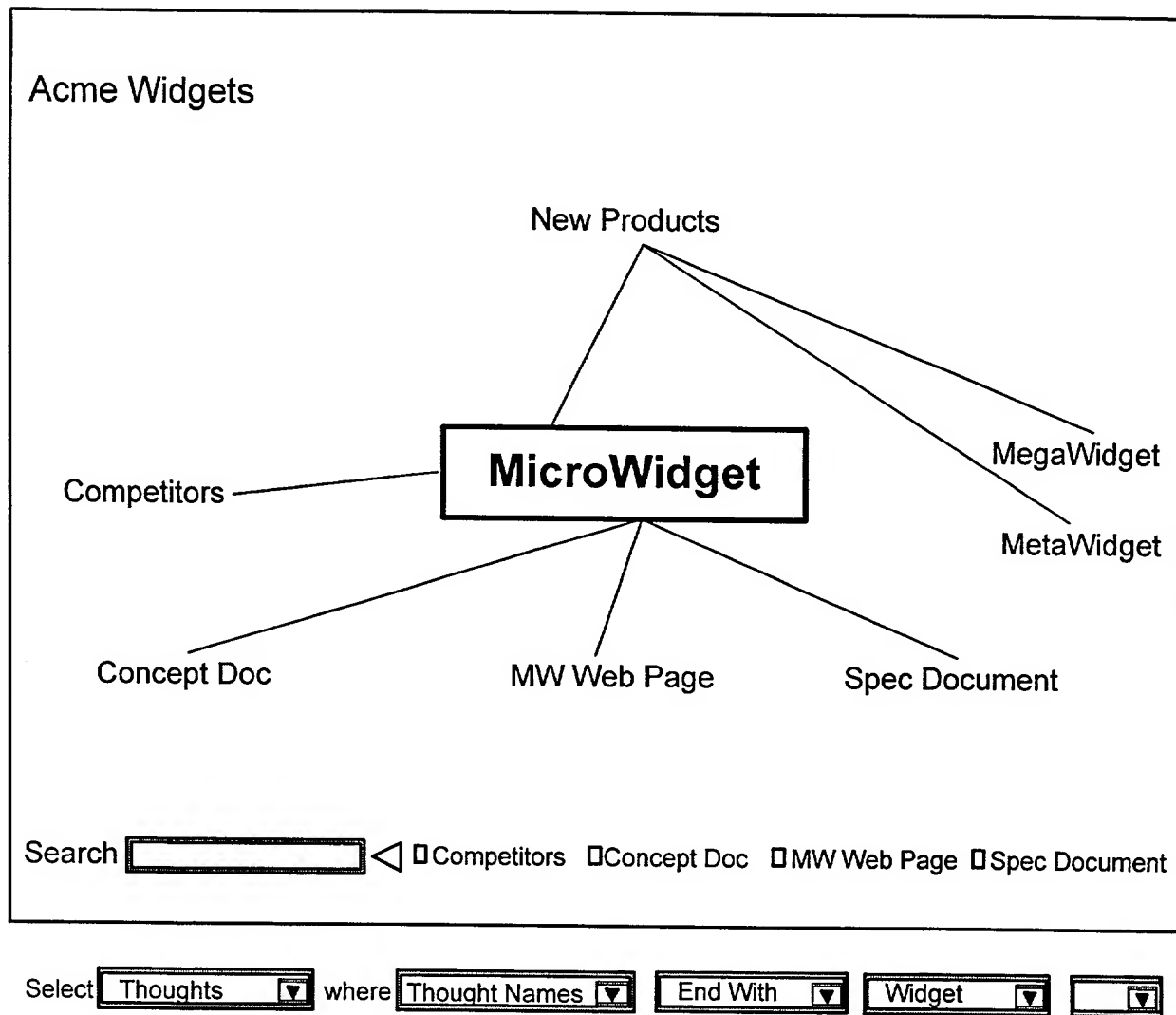
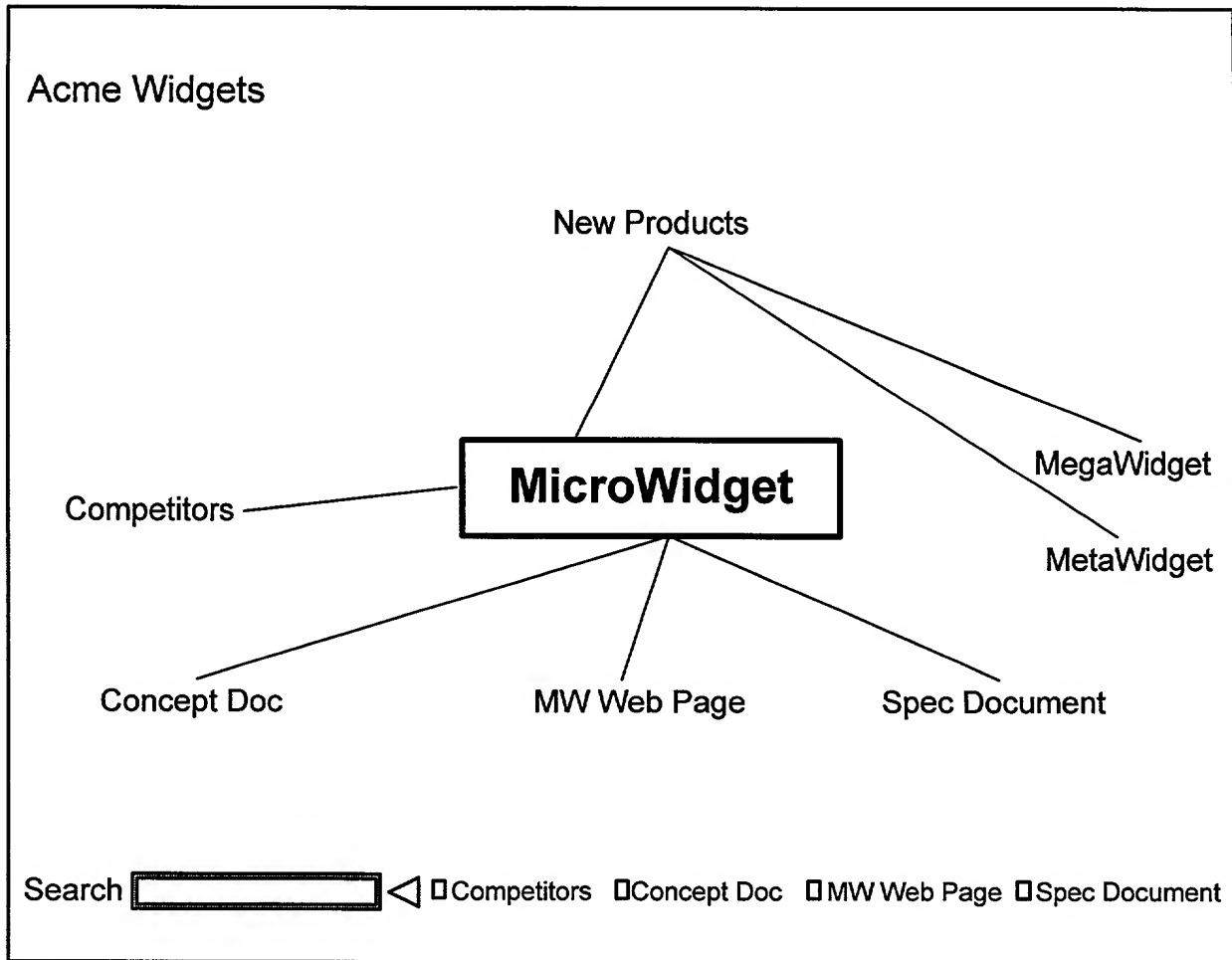


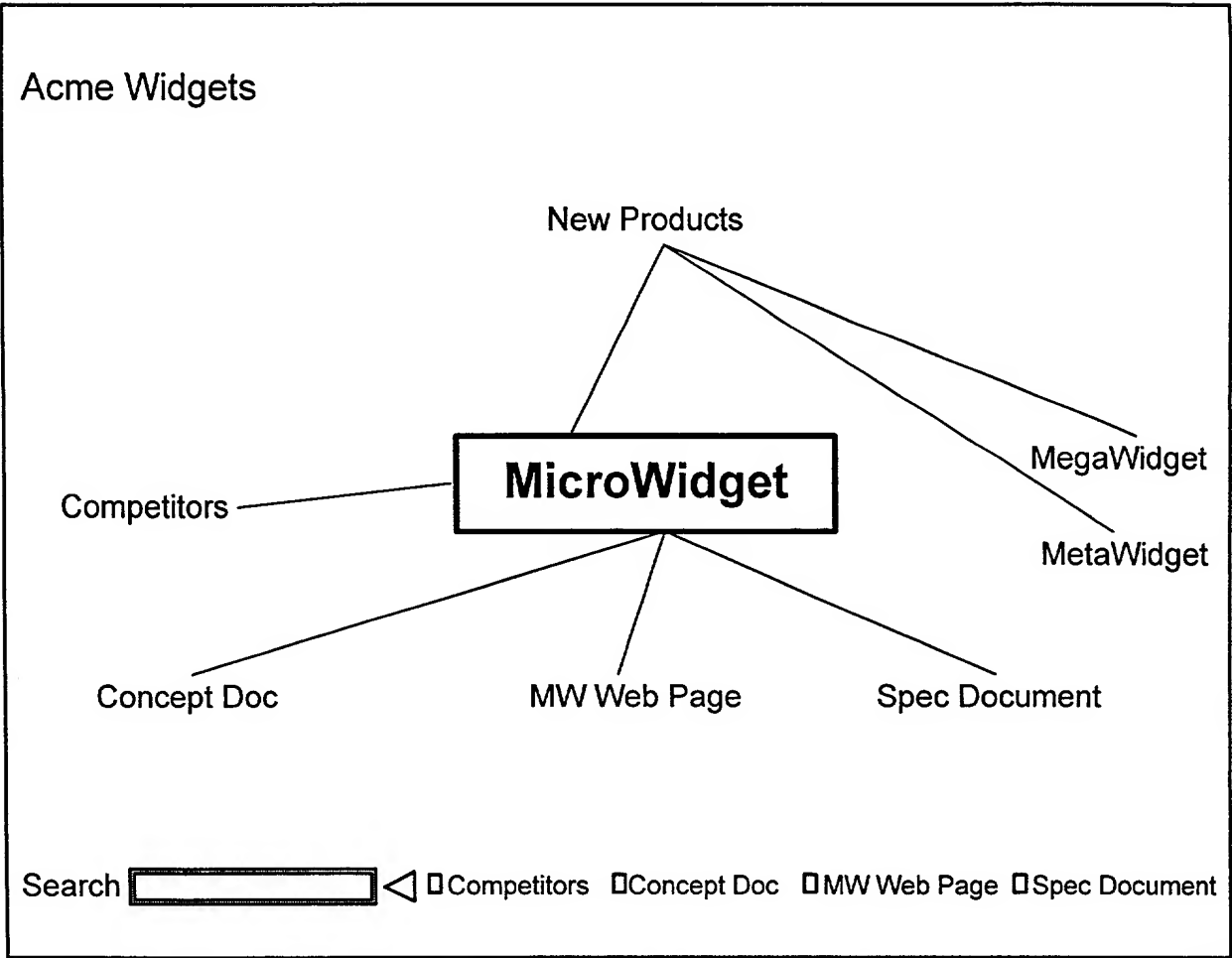
FIG. 30



Select where

OR
AND
OR

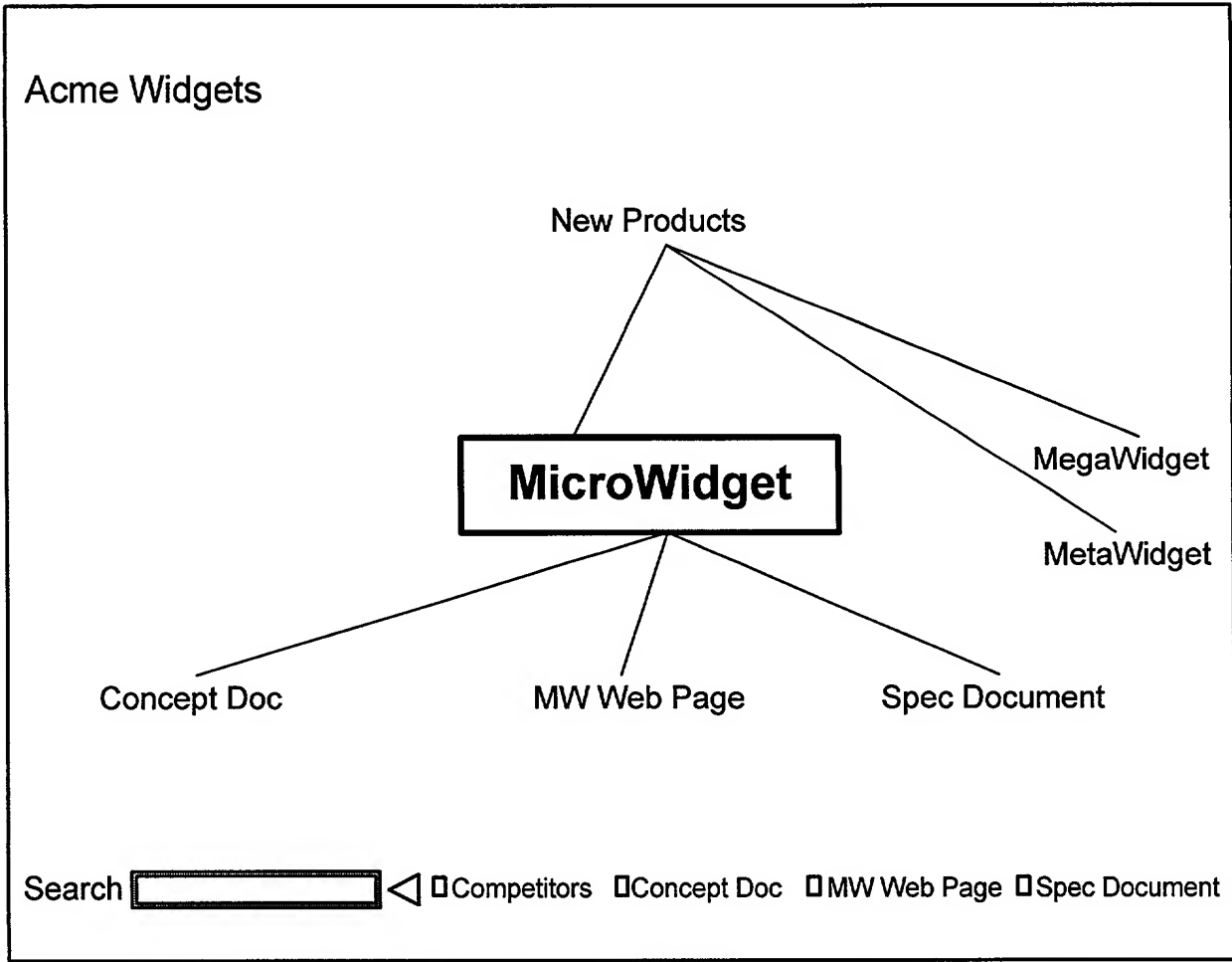
FIG. 31



Select where

Select where

FIG. 32



Select where

Select where

FIG. 33

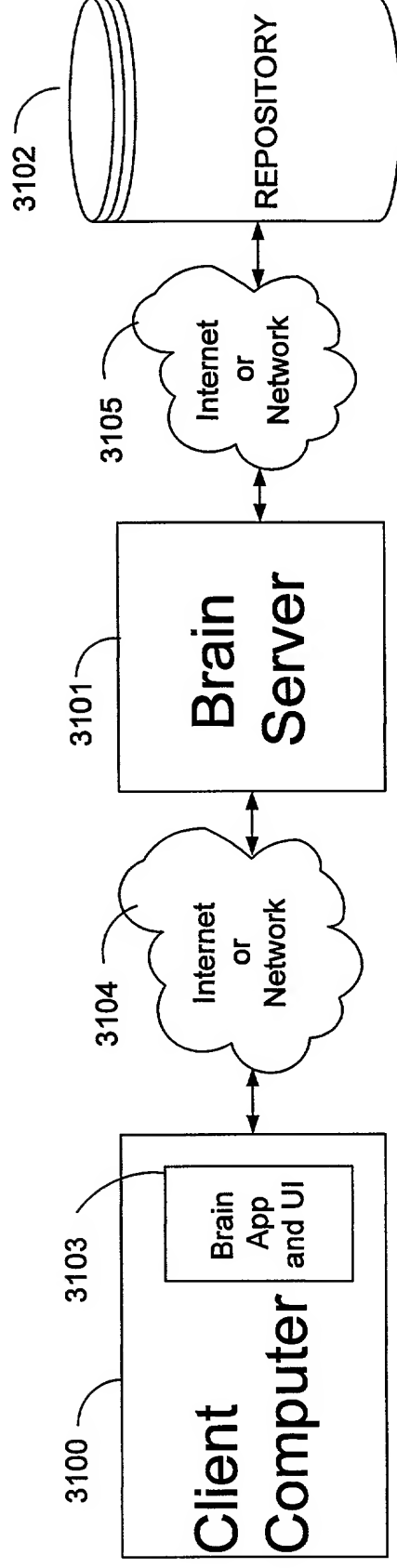
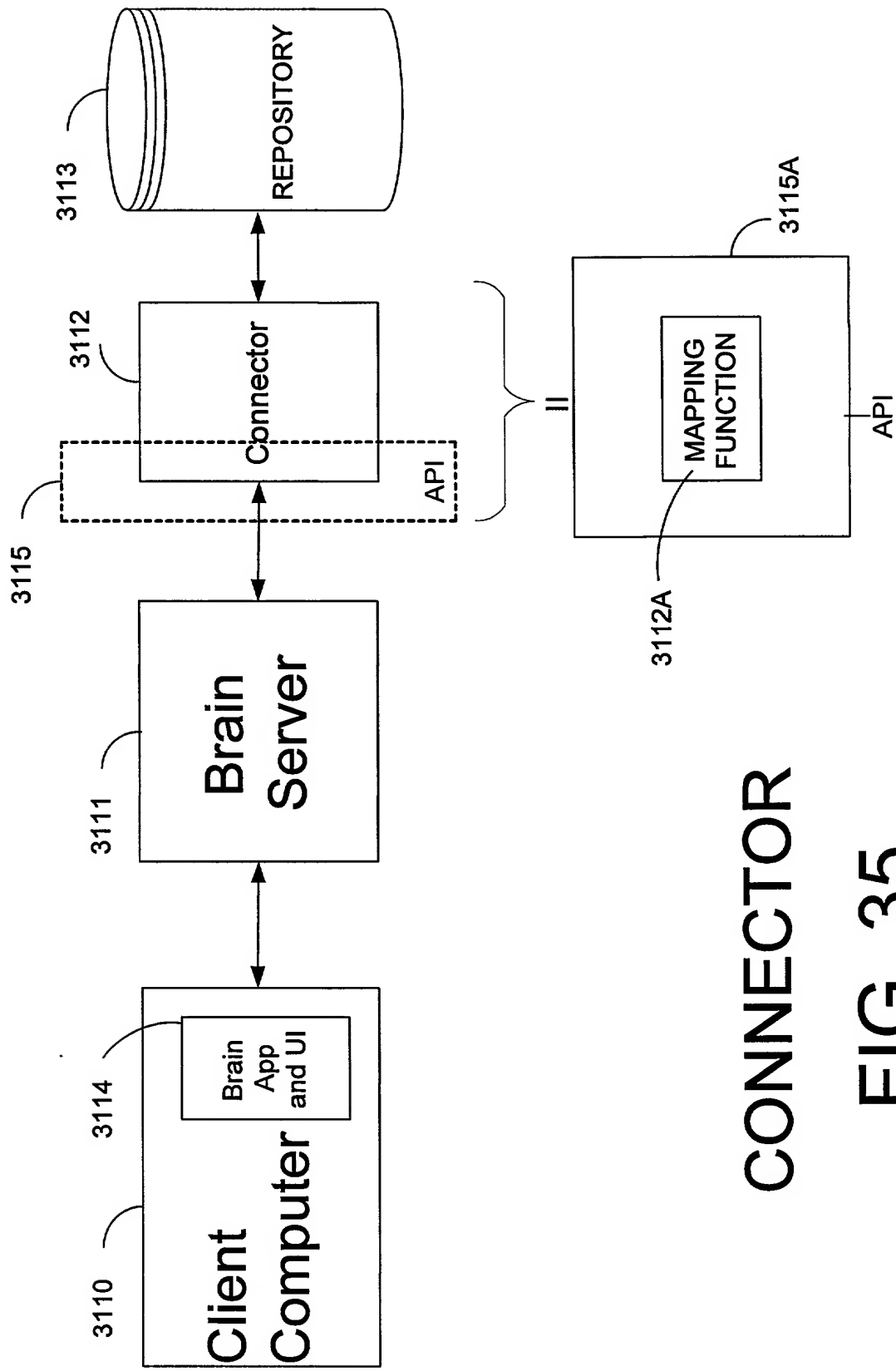
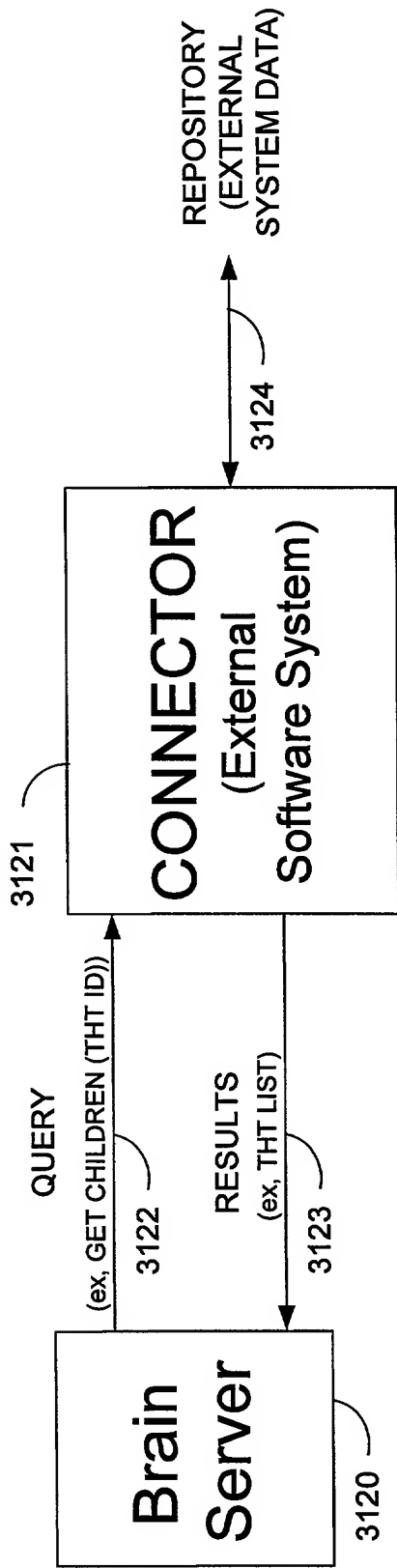


FIG. 34



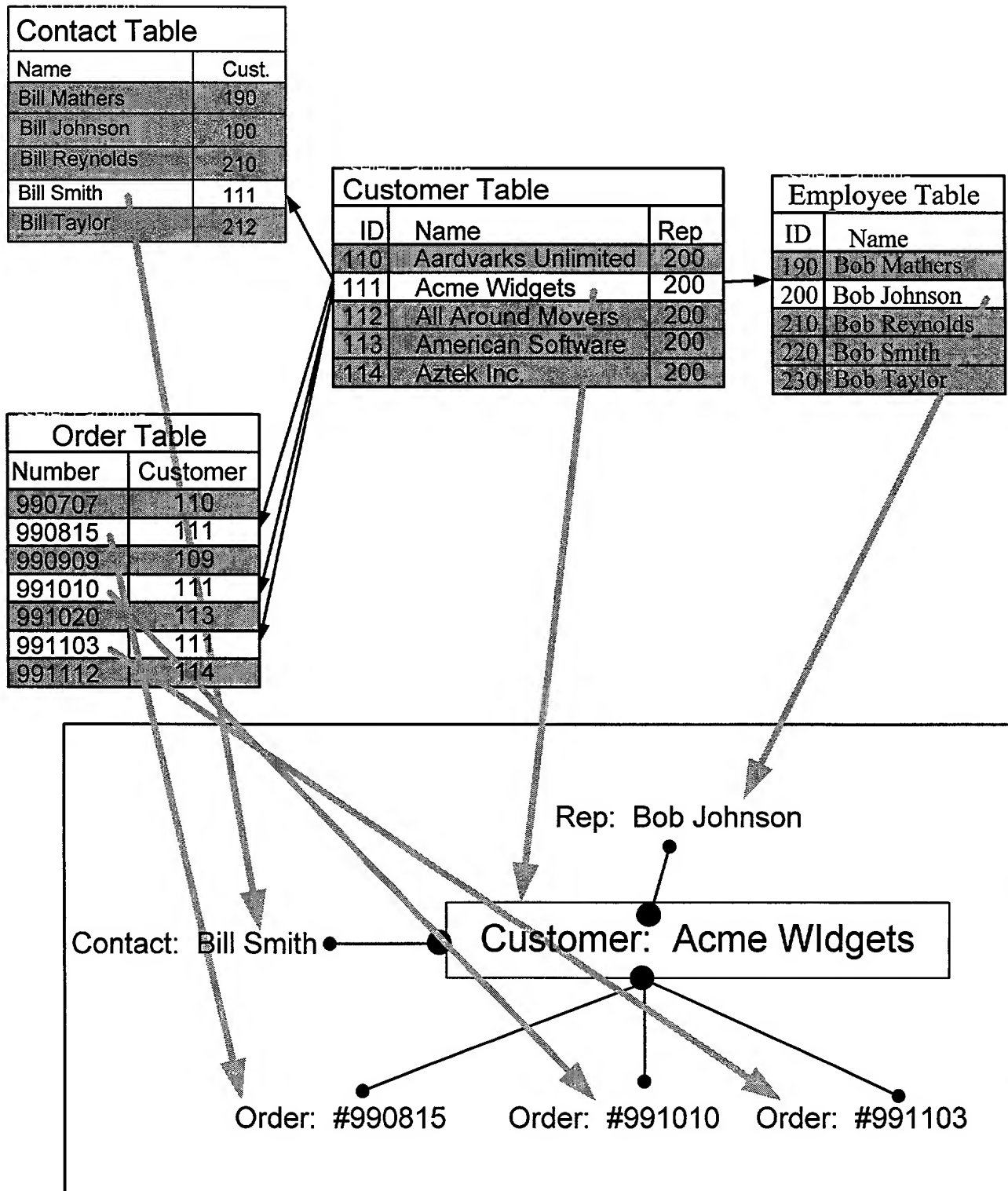
CONNECTOR

FIG. 35



EXAMPLE

FIG. 36



RELATED DATA IN DATABASE TABLES MAPPED TO THEBRAIN

FIG. 37

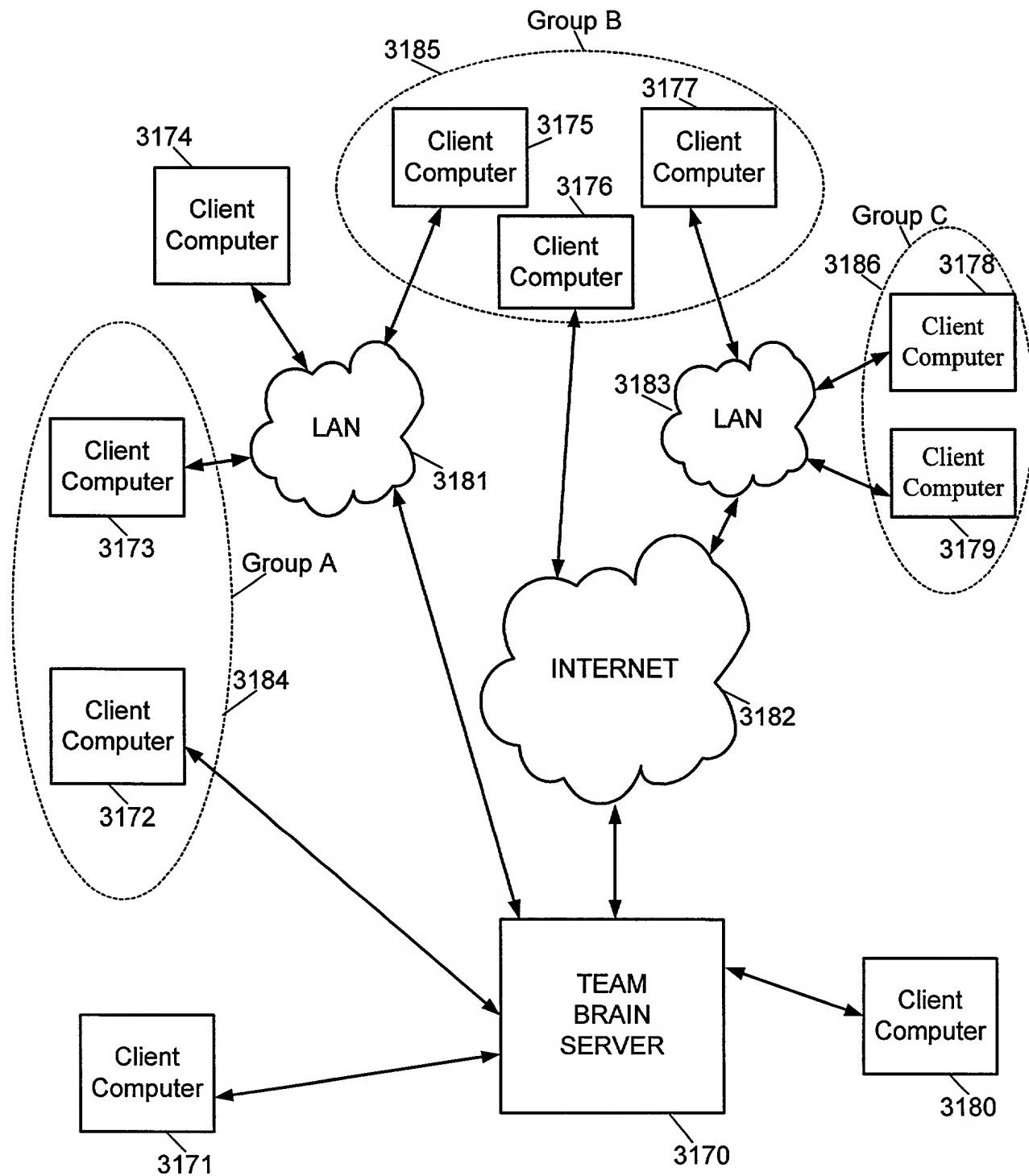


FIG. 38

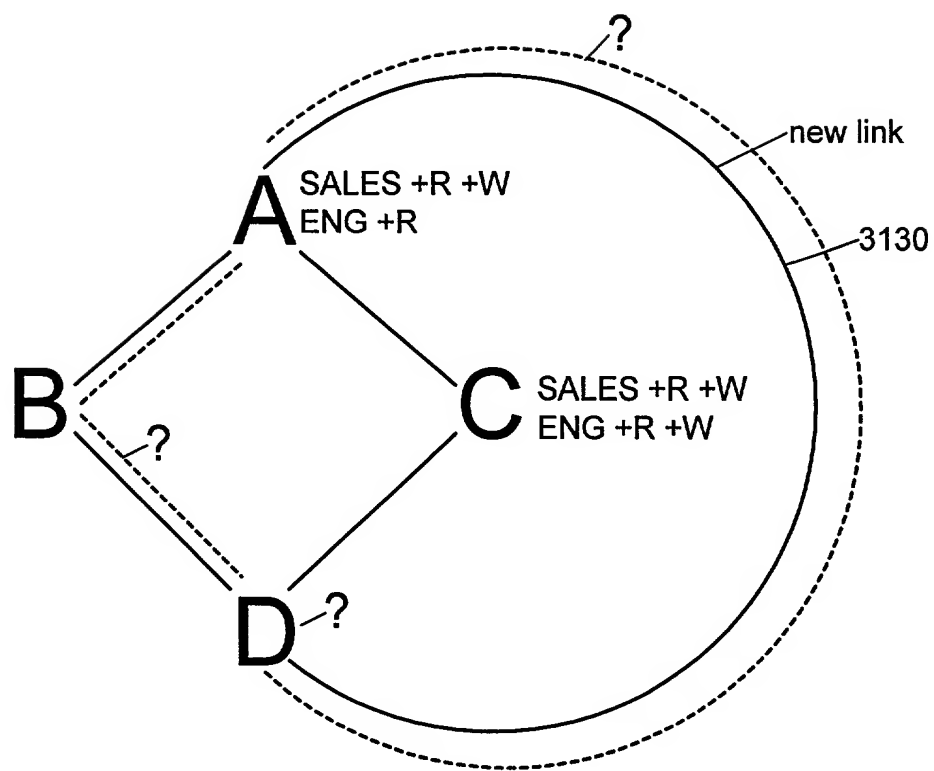
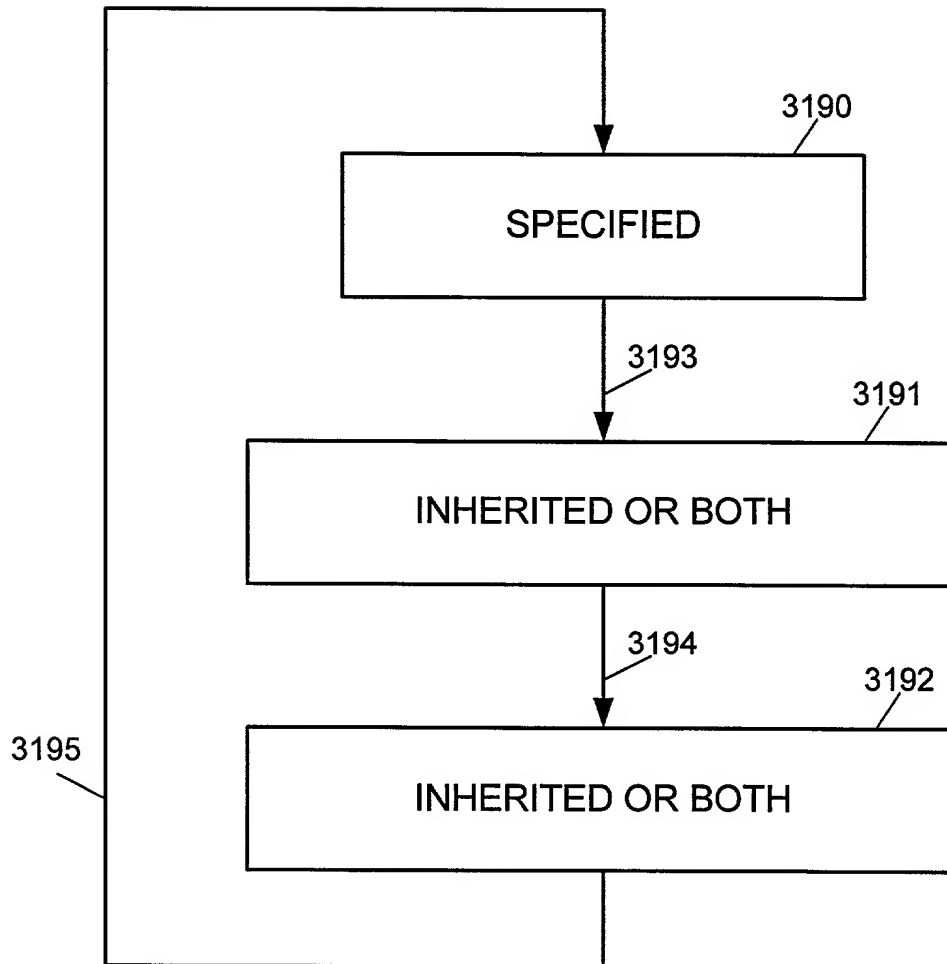
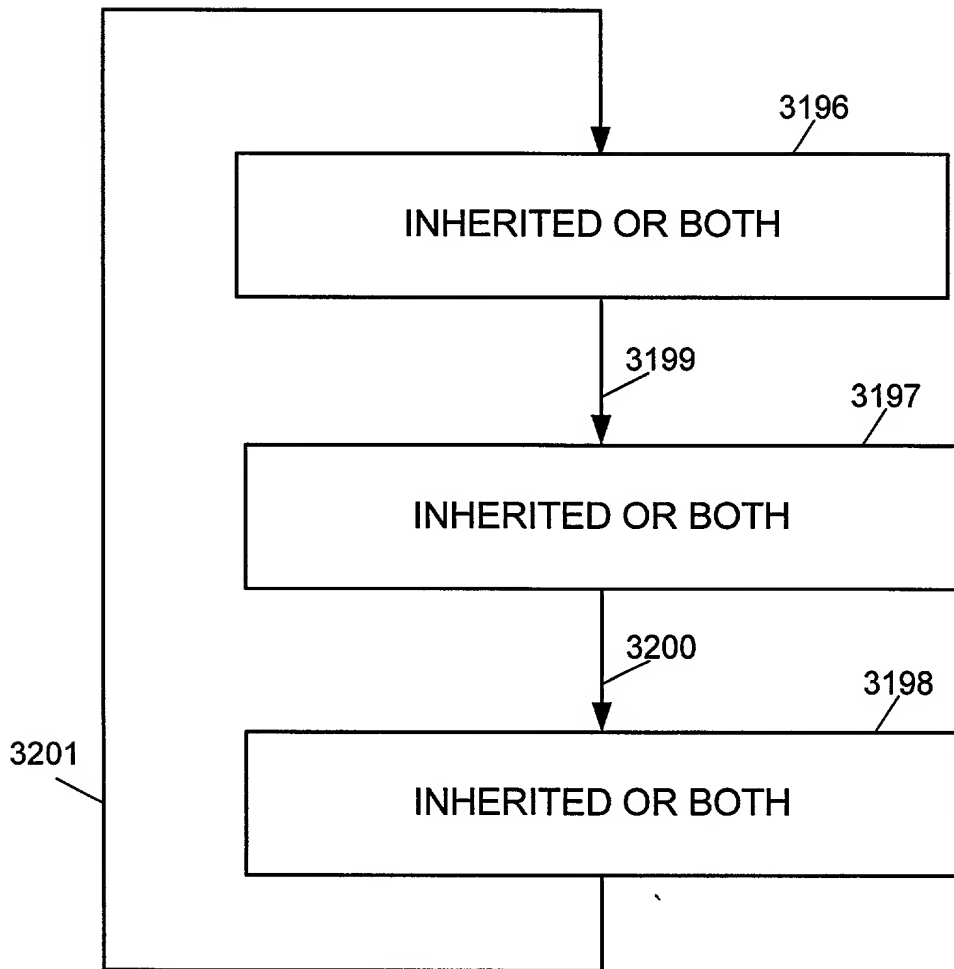


FIG. 39



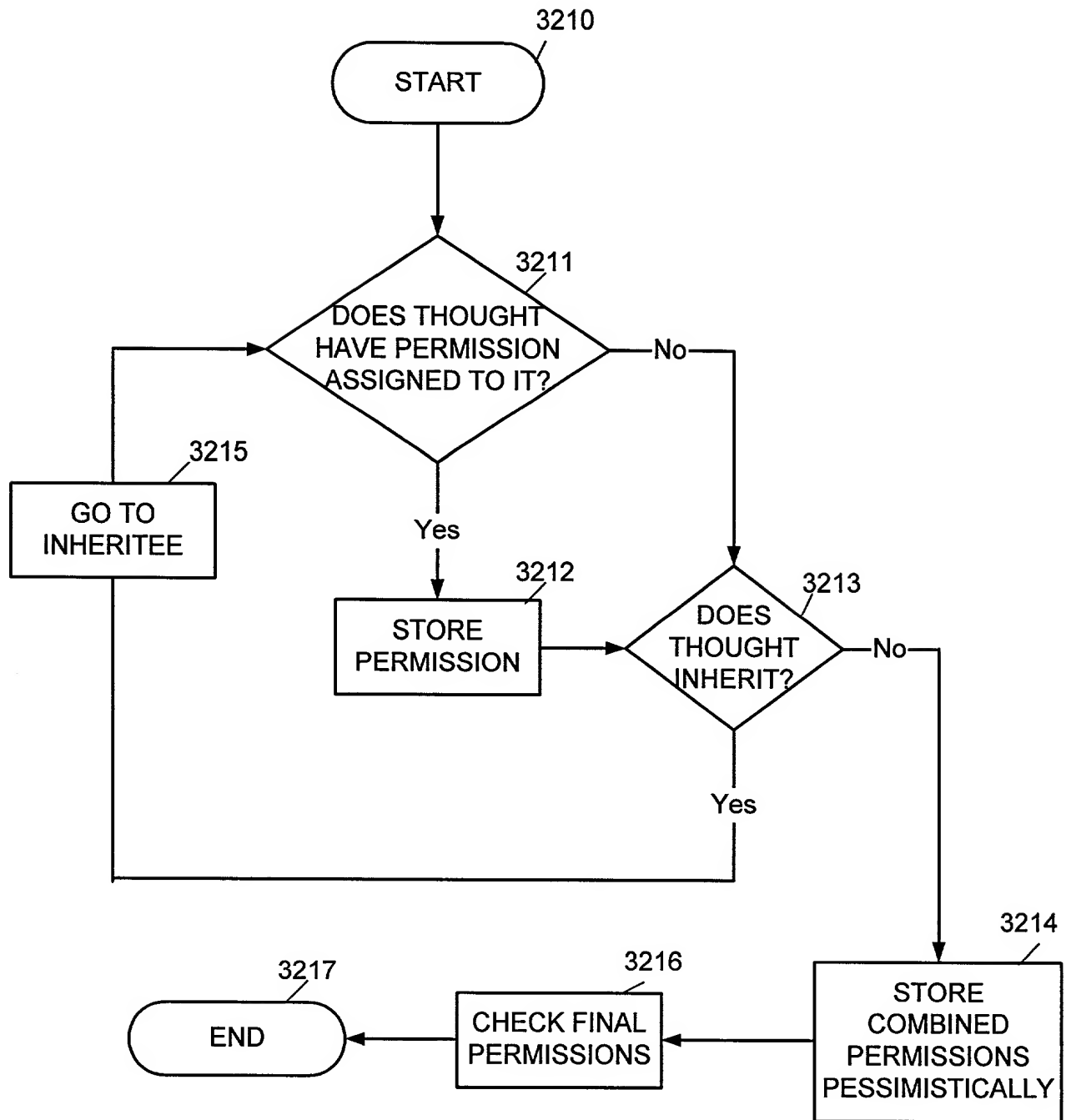
ALLOWED INHERITANCE

FIG. 40



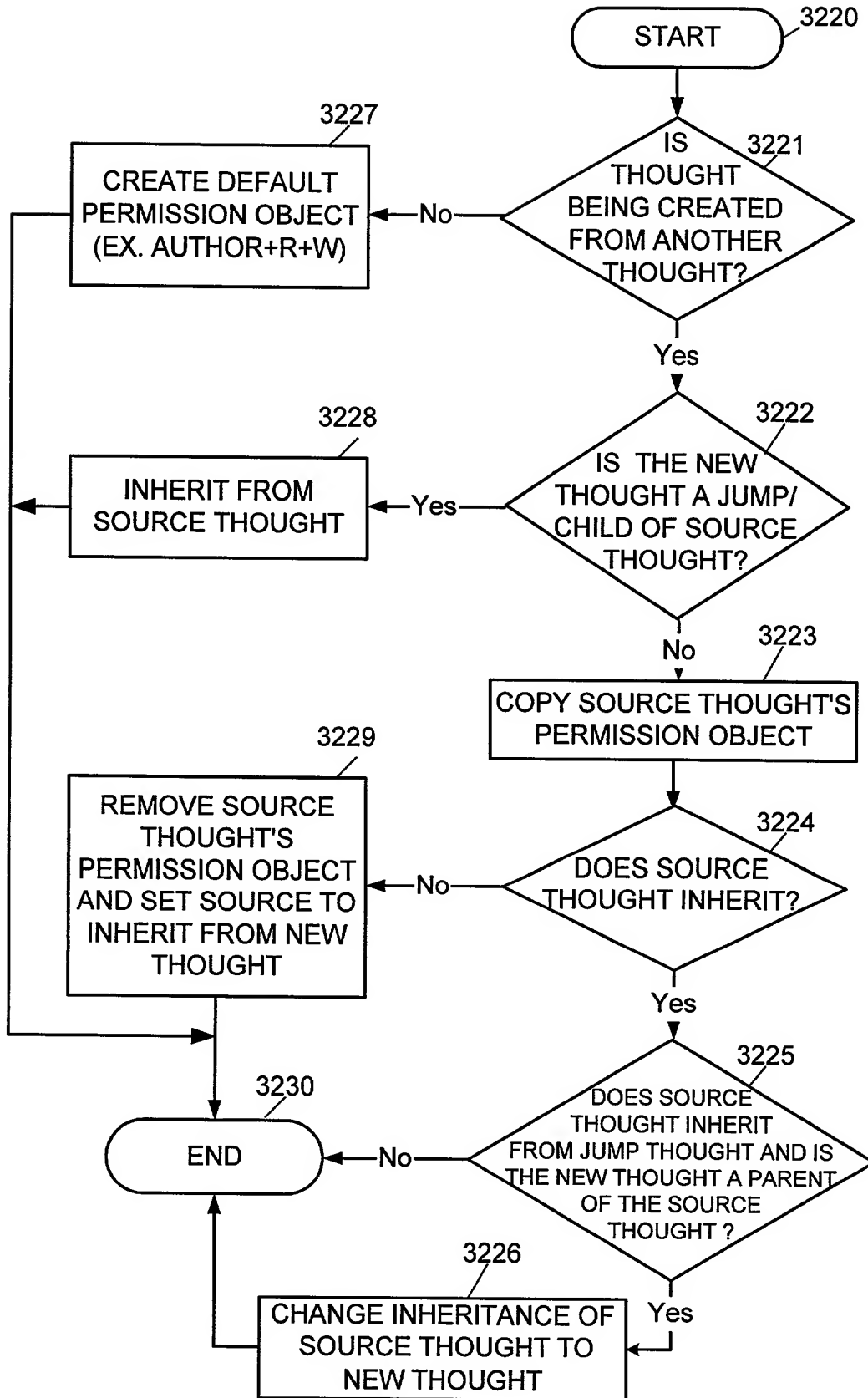
NOT ALLOWED INHERITANCE

FIG. 41



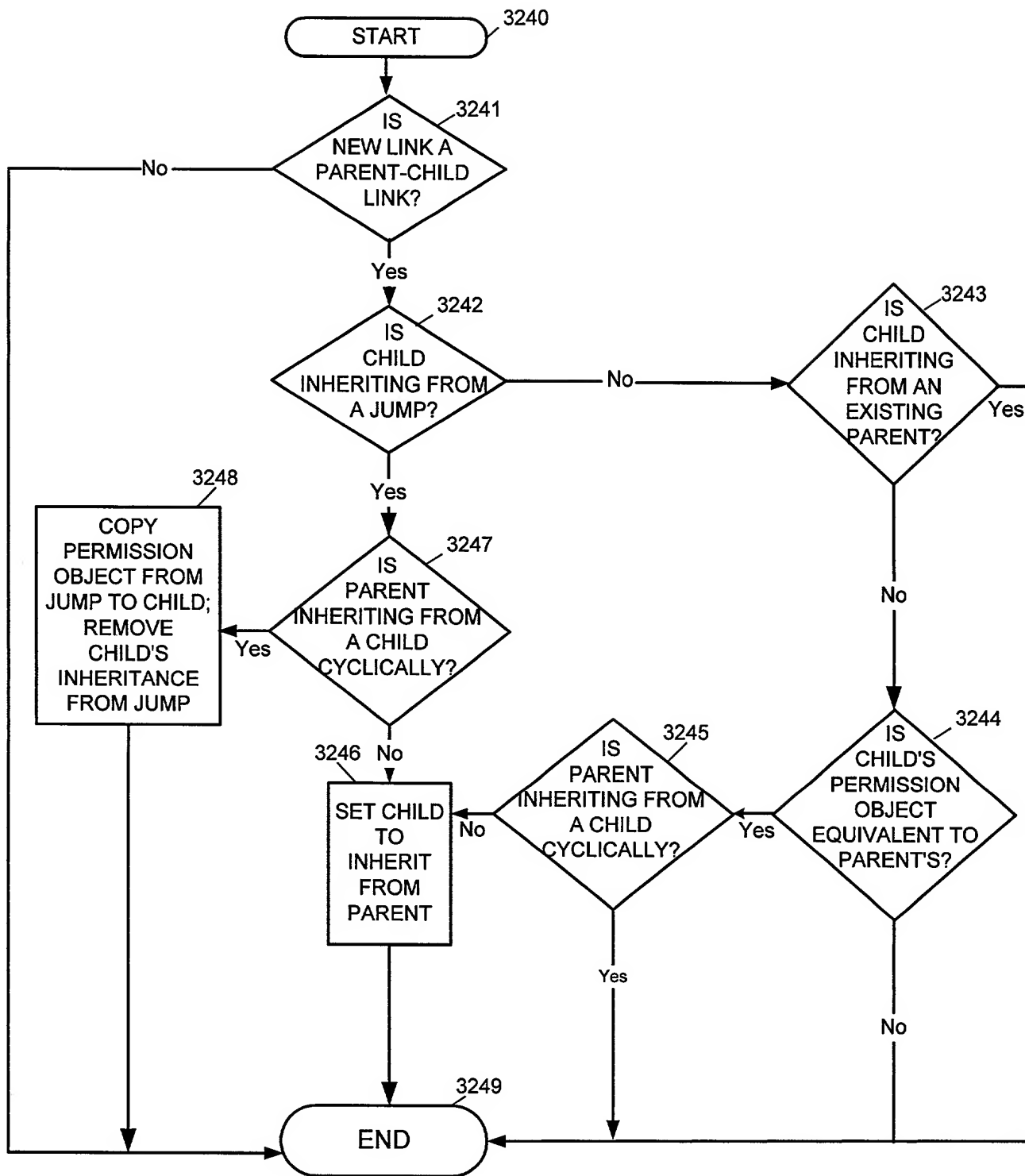
CHECKING PERMISSIONS

FIG. 42



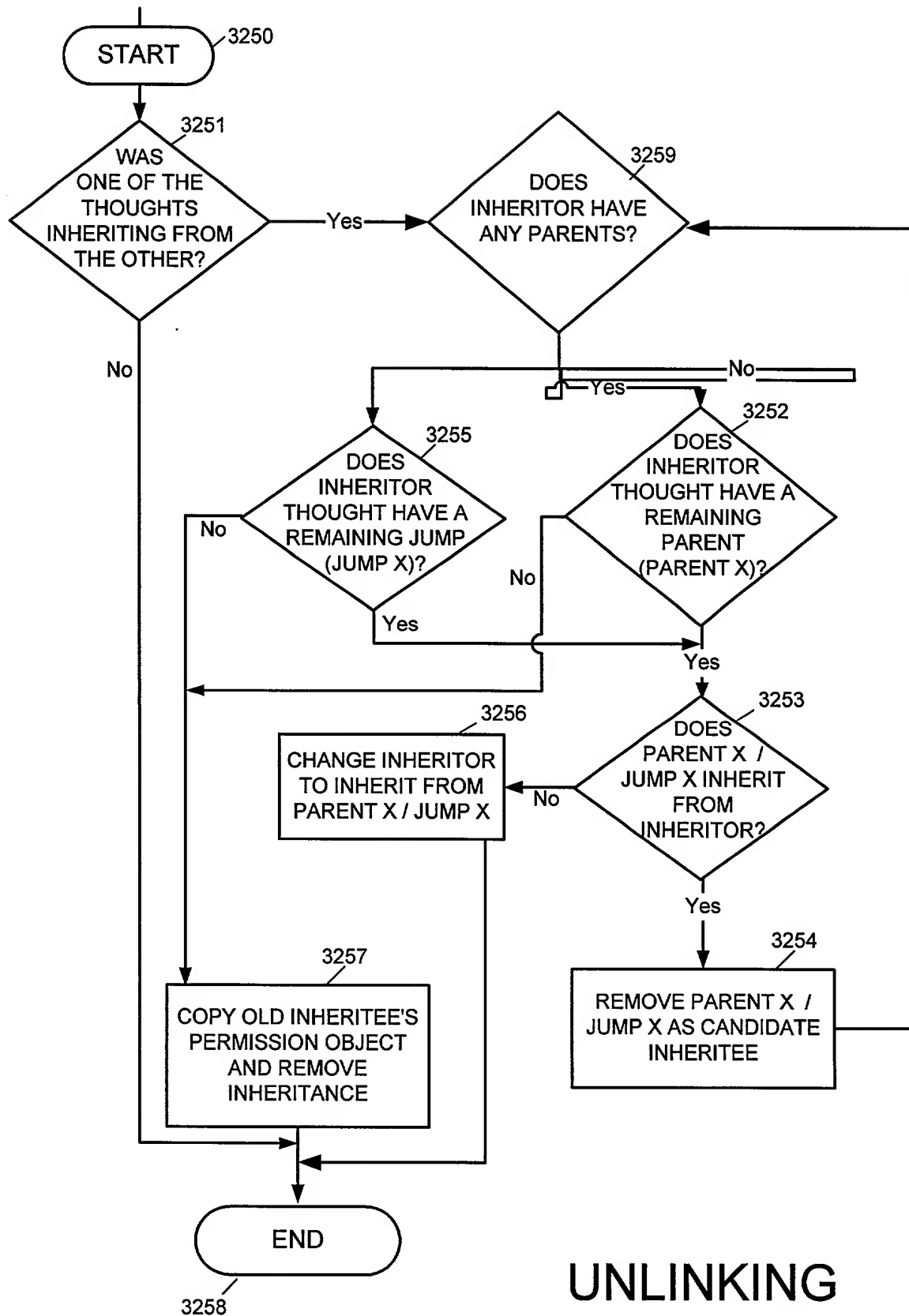
ASSIGNING/INHERITING
PERMISSIONS FOR NEW THOUGHT

FIG. 43

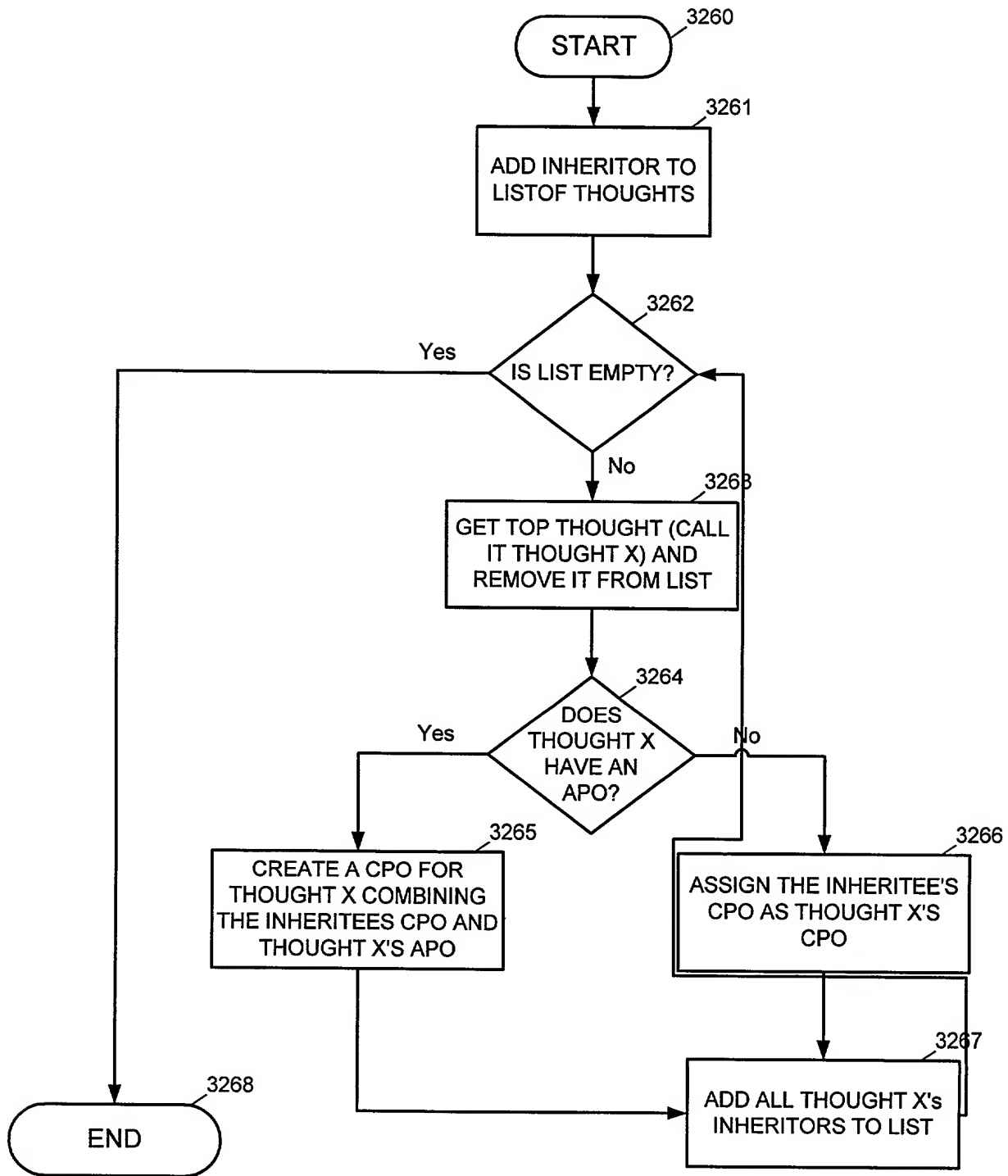


CREATING LINKS

FIG. 44

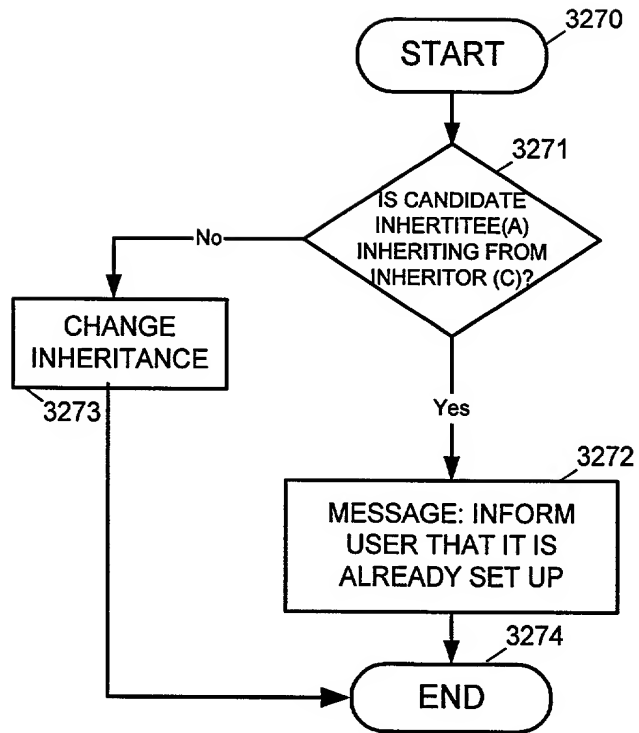


UNLINKING
FIG. 45



PROPAGATION OF
PERMISSIONS

FIG. 46



ASSIGNING INHERITANCE

FIG. 47A

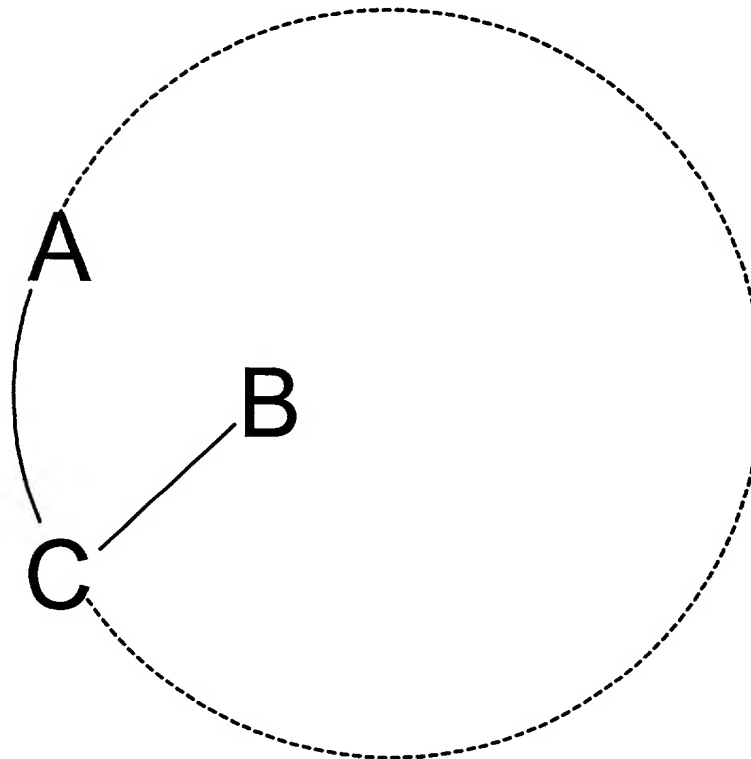
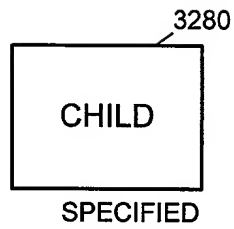
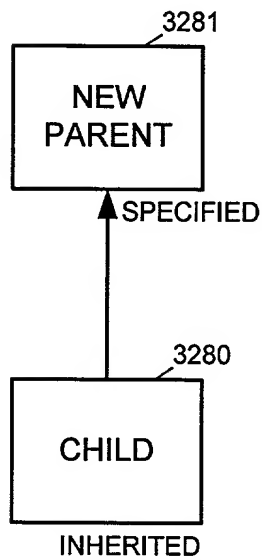


FIG. 47B



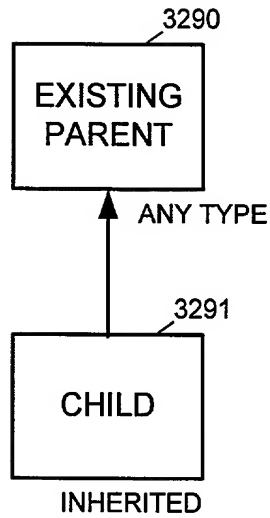
CREATING A PARENT THOUGHT --
NO PARENTS OR JUMPS

FIG. 48A



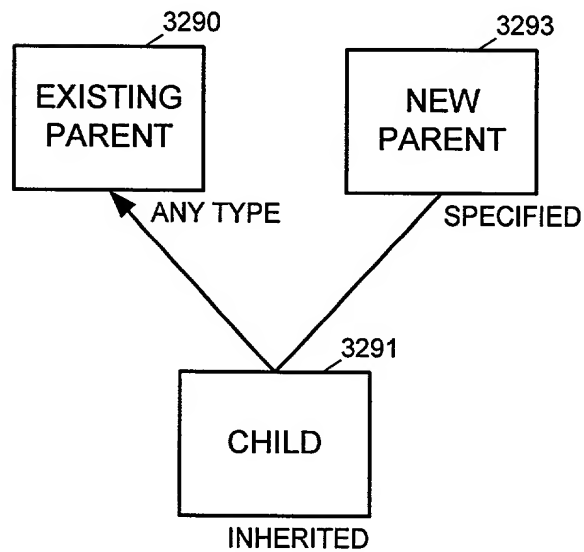
CREATING A PARENT THOUGHT

FIG. 48B



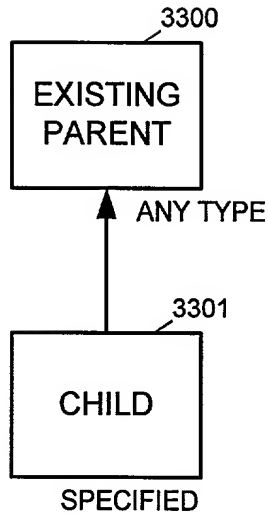
CREATING A PARENT THOUGHT-- ONE OR MORE PARENTS, CHILD INHERITING FROM ONE PARENT

FIG. 49A



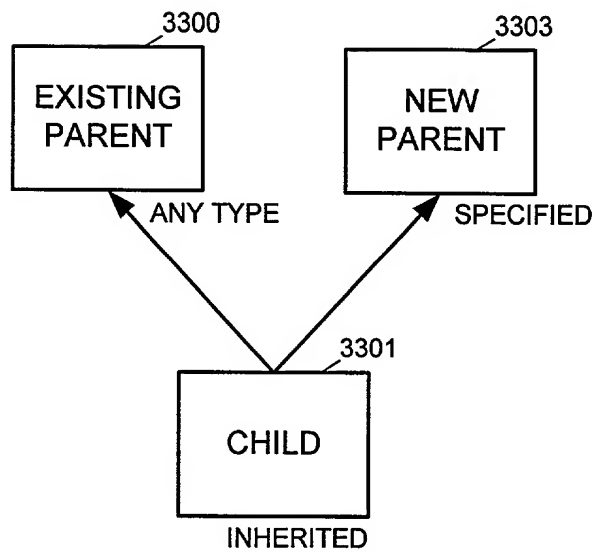
CREATING A PARENT THOUGHT

FIG. 49B



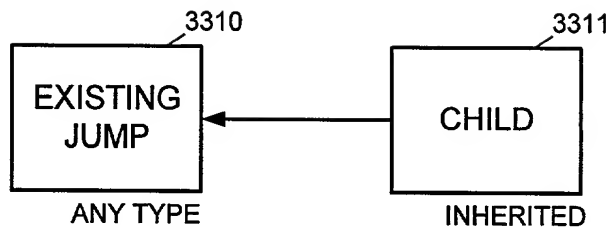
CREATING A PARENT THOUGHT -- ONE OR MORE PARENTS, CHILD PERMISSIONS ARE SPECIFIED

FIG. 50A



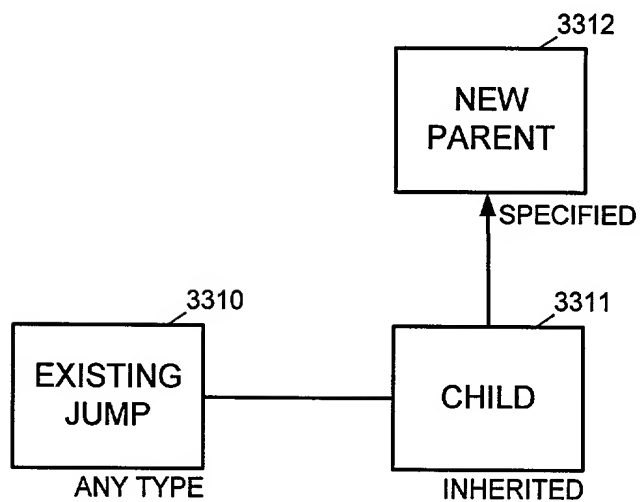
CREATING A PARENT THOUGHT

FIG. 50B



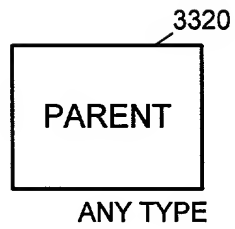
CREATING A PARENT THOUGHT -- NO
PARENTS, ONE OR MORE JUMPS

FIG. 51A



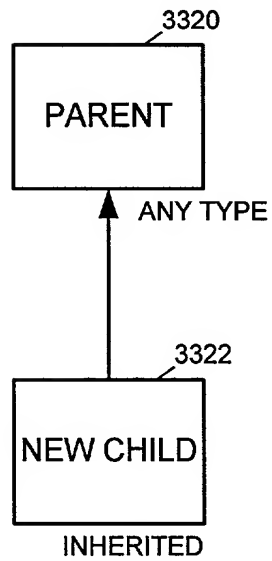
CREATING A PARENT

FIG. 51B



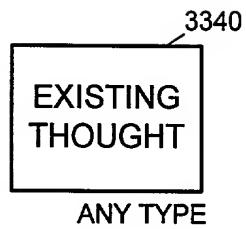
CREATING A CHILD THOUGHT

FIG. 52A



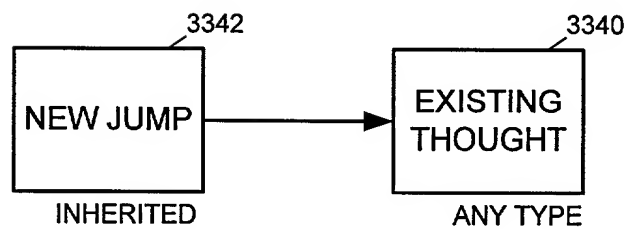
CREATING A CHILD THOUGHT

FIG. 52B



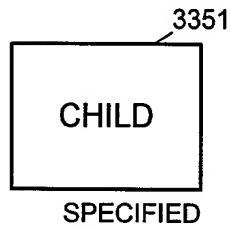
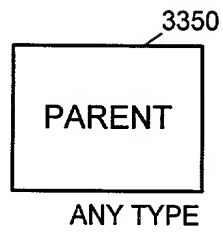
CREATING A JUMP THOUGHT

FIG. 53A



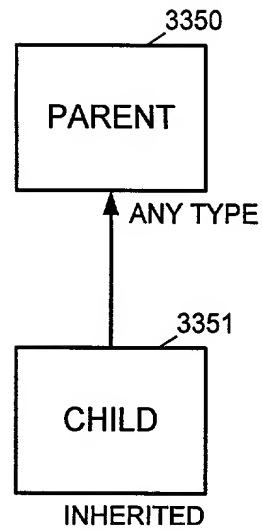
CREATING A JUMP THOUGHT

FIG. 53B



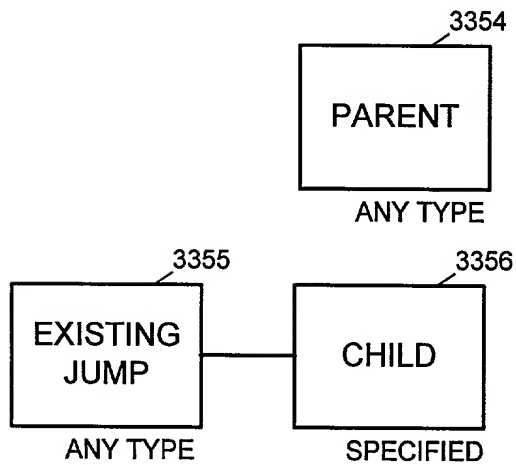
CREATING PARENT-CHILD LINKS

FIG. 54A



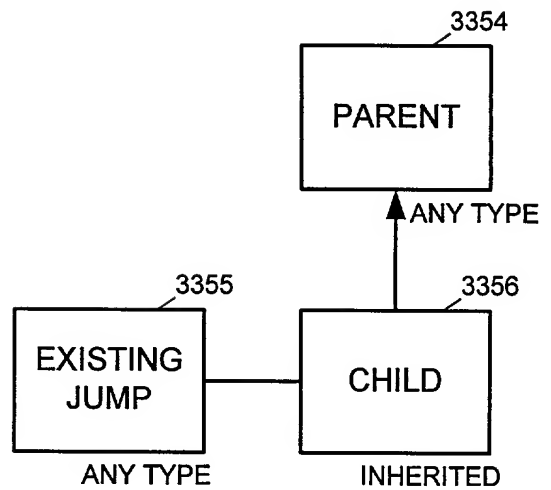
CREATING PARENT-CHILD LINKS

FIG. 54B



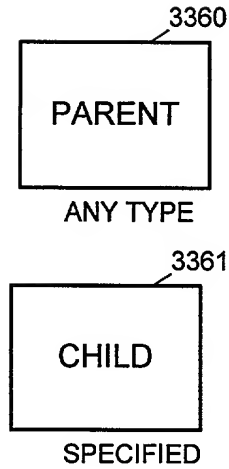
CREATING PARENT-CHILD LINKS

FIG. 54C



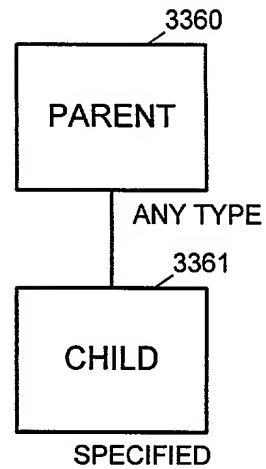
CREATING PARENT-CHILD LINKS

FIG. 54D



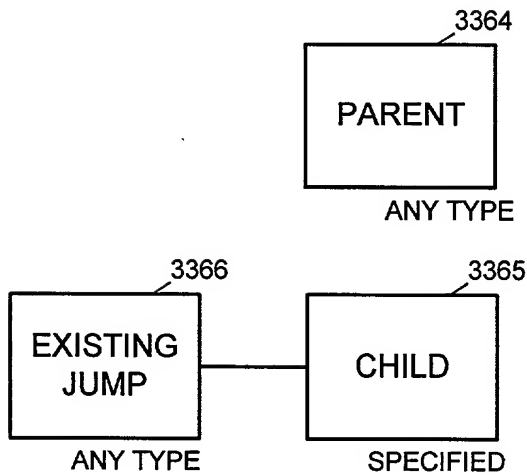
CREATING PARENT-
CHILD LINKS

FIG. 55A



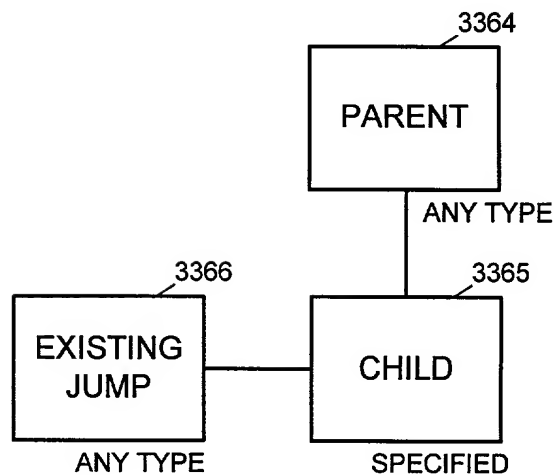
CREATING PARENT-
CHILD LINKS

FIG. 55B



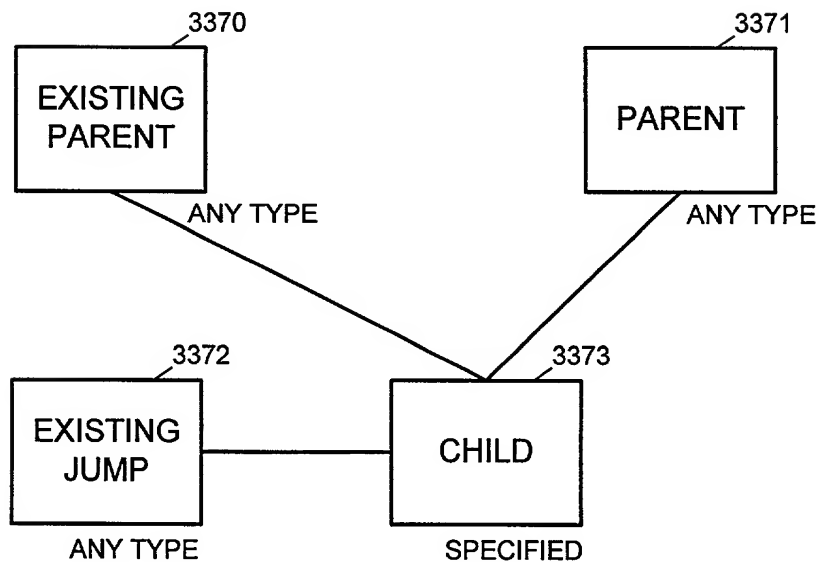
CREATING PARENT-
CHILD LINKS

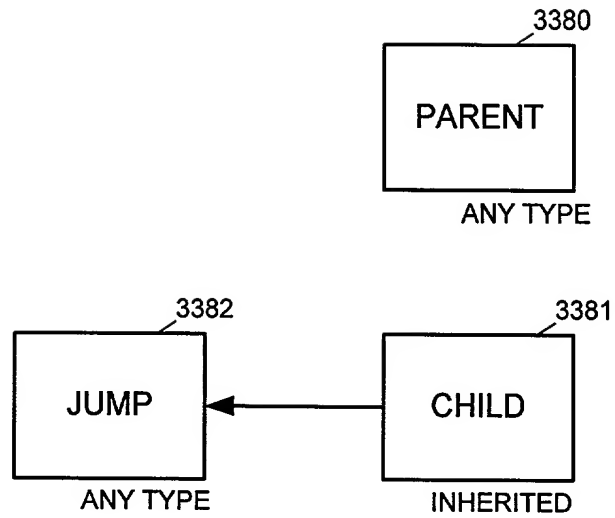
FIG. 55C



CREATING PARENT-
CHILD LINKS

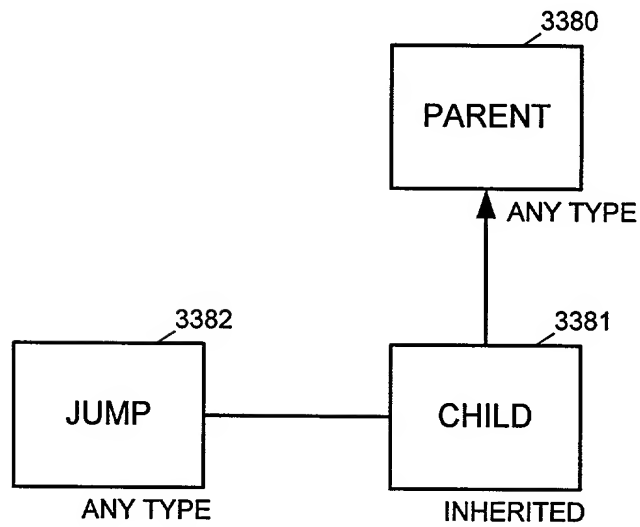
FIG. 55D





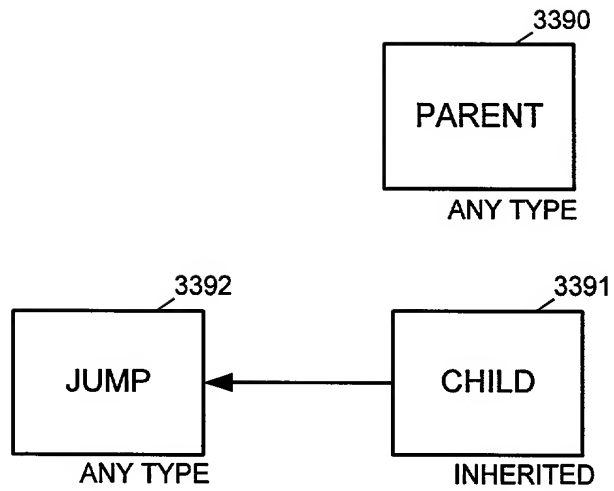
CREATING PARENT-
CHILD LINKS

FIG. 56A



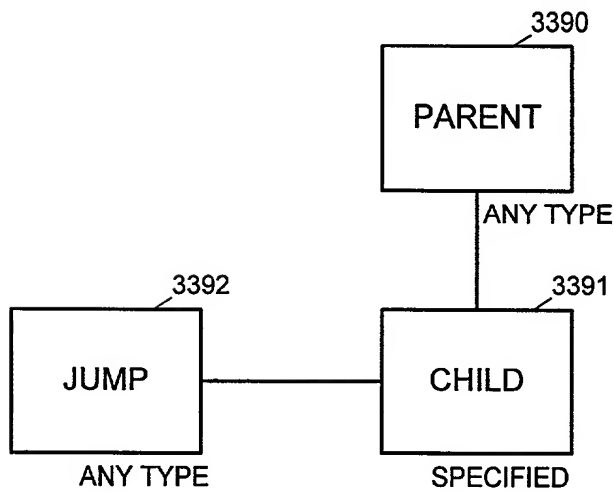
CREATING PARENT-
CHILD LINKS

FIG. 56B



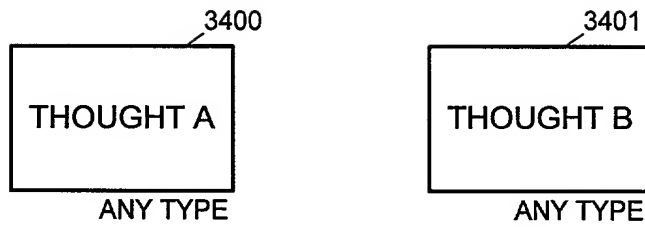
CREATING PARENT-CHILD LINKS

FIG. 57A



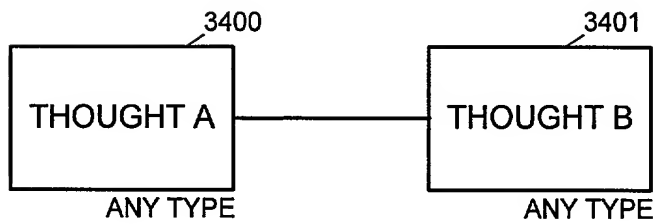
CREATING PARENT-CHILD LINKS

FIG. 57B



CREATING JUMP LINKS

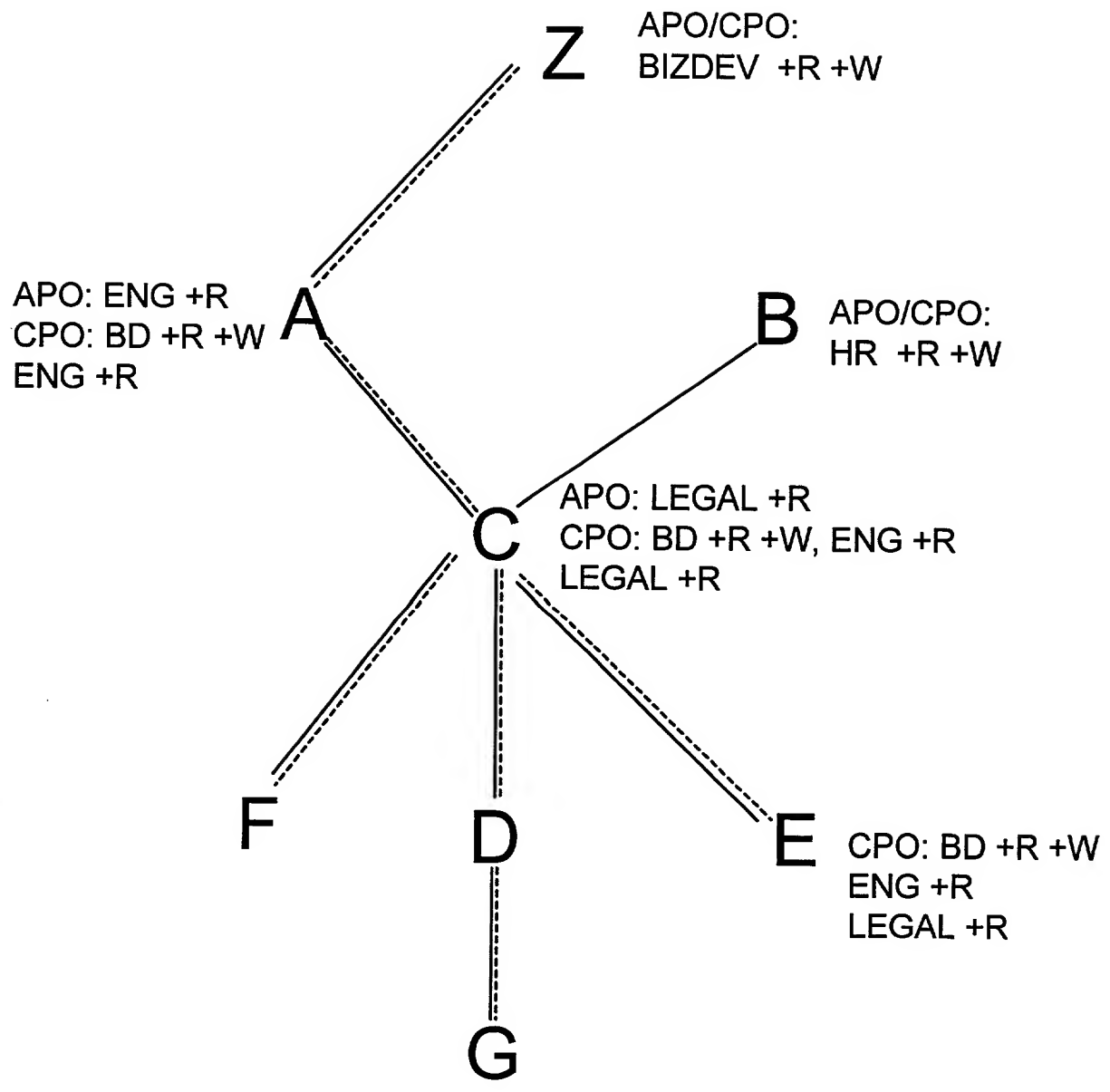
FIG. 58A



CREATING JUMP LINKS

FIG. 58B

FIG. 59



EXAMPLE
FIG. 59

ACTIONS FOR FOLDERS / CABINETS

Refresh Inbox Checked Out Search Bookmark Change Docbase My Cabinet

POWERED BY THEBRAIN

KnowledgeMgmt

Business Intelligence CAD Categorization Content Management Corporate Portals Doc admin Document Management Email Exchanges Financial Reports Larry's Cabinet Research

KnowledgeMgmt

KnowledgeMgmt

Show 10 items per page

Name	Menu	Last Modified	Lock Owner
<u>Business Intelligence</u>	-select action-	3/20/2001	
<u>CAD</u>	-select action-	3/20/2001	
<u>Categorization</u>	-select action-	3/20/2001	
<u>Content Management</u>	-select action-	3/20/2001	
<u>Corporate Portals</u>	-select action-	3/20/2001	
<u>Doc admin</u>	-select action-	3/20/2001	
<u>Email</u>	-select action-	3/20/2001	

Showing items 1-10 of 18

Back Next

FIG. 60

ACTIONS FOR FOLDERS / CABINETS

Refresh Inbox Checked Out Search Bookmark Change Docbase My Cabinet

POWERED BY THEBRAIN

KnowledgeMgmt

Business Intelligence CAD Categorization Content Management Corporate Portals Doc admin Document Management Email Exchanges Financial Reports Larry's Cabinet Research

KnowledgeMgmt

KnowledgeMgmt
E-Solutions working clients database

Show 10 items per page

-select action-

Name	Menu	Last Modified	Lock Owner
<u>Business Intelligence</u>	-select action-	3/20/2001	
<u>CAD</u>	-select action-	3/20/2001	
<u>Categorization</u>	Standard view...	3/20/2001	
<u>Content Management</u>	Delete ...	3/20/2001	
<u>Corporate Portals</u>	Import ...	3/20/2001	
<u>Doc admin</u>	New Document...	3/20/2001	
<u>Email</u>	New Folder ...	3/20/2001	
	Permissions...	3/20/2001	
	Properties...	3/20/2001	
	-select action-	3/20/2001	

Showing items 1-10 of 18

Back Next

FIG. 61

ACTIONS FOR DOCUMENTS

Refresh
Inbox
Checked Out
Search
Bookmark
Change Docbase
My Cabinet

POWERED BY THEBRAIN

KnowledgeMgmt

Content Management
Corporate Portals
Doc admin
Salesforce Automation

Categorization

Acme, Inc.
Widget Mfg.
XYZ & Co.
Able, Inc.
Team & Co.
Smith & Jones

J & J, Inc.
Williams Co.
Categorization

KnowledgeMgmt
Categorization

Categorization

Show 10 items per page

-select action-

Name	Menu	Last Modified	Lock Owner
Acme, Inc.	-select action-	3/20/2001	
Categorization	-select action-	3/20/2001	
Word 97 /2000 document, Categorization	-select action-		
Widget Mfg.	Standard view...	3/20/2001	
XYZ & Co.	Checkout...	3/20/2001	
Able, Inc.	Delete...	3/20/2001	
Smith & Jones	Edit...	3/20/2001	
Team & Co.	Export ...	3/20/2001	
	Permissions...		
	Properties...	3/20/2001	
	Versions and Renditions...		
	View ...		

Showing items 1-9 of 9

Back
Next

FIG. 62

Figure 63 --- Fully Connected Brain: Modifying an Item, No Conflict

	Client A	Client B	Server
3390	Log in		
3391	Ask server for info about starting thought 1		
3392			Find info about starting thought 1
3393			Return
3394	Display		
3395		Log in	
3396		Ask server for info about starting thought	
3397			Find info about starting thought 1
3398			Return
3399		Display	
3400	Begin modification of data item 1 (thought 1 name, link, property, contents, etc.)		
3401	Send lock request		
3402			Check for existing lock
3403			None found
3404			Lock data item 1 for A
3405	End modification		
3406	Send modification to server and unlock		
3407			Check for other existing lock
3408			None found, confirm and unlock
3409	Display changed data item 1		
3410		Begin modification of data item 1	
3411		Send lock request	
3412			Check for existing lock
3413			None found
3414			Lock item for B
3415		End modification	
3416		Send modification to server and unlock	
3417			Check for existing lock
3418			None found, confirm and unlock
3419		Display changed data item 1	

Figure 64

Fully Connected Brain - Modifying an Item - Conflicts Found

	Client A	Client B	Server
3420	Log in		
	Ask server for info about starting thought		
3421			
3422			Find info about starting thought
3423			Return
3424	Display		
3425		Log in	
		Ask server for info about starting thought	
3426			
3427			Find info about starting thought
3428			Return
3429		Display	
3430	Begin modification of data item		
3431	Send lock request		
3432			Check for existing lock
3433			None found
3434			Lock item for A
3435		Begin modification of data item	
3436		Send lock request	
3437			Check for existing lock
3438			Locked by Client A
3439			Inform Client B
3440		Locked - inform user.	
3441	End modification		
	Send modification to server and unlock		
3442			
3443			Check for other existing lock
3444			None found, confirm
3445	Display changed data		

Figure 65

Synchronizing Offline Brains

	Client	Server
3450	Modifying Data Offline	
	Begin modifying data item	
	Update meta-info (at least data item being modified and time)	
	Add to list of modified data items	
3451	Detecting New or Needed Items	
	user selects a thought with links to "missing" thoughts.	
	add missing thoughts to list of new items.	
3452	Updating the Client for Missing Data Items	
	Send list of new items	
		Receive list of new items
		Add items to list based on synchronization profile
		Send data for all items on list
	Receive data and add to local data store	
	Empty list of new items	
3453	Updating Client and Server of new Modifications	
	Send list of modified data items with meta-data about modification, but not the data itself	
	request list of all data items modified since last synchronization	
		Receive list of modified items
		Generate list of items modified on the server since last synchronization
		Detect conflicts between two lists. Decide based on conflict rules
		When Server Wins Conflict, or When Client Made No Modification: Send data for items
		When Client Wins, or When Server Made No Modifications: Request data for items.
	Make modifications to items for data received on local data store	
	Send data for items requested	
		Receive data items and make modifications on server data store
	Clear list of modified items	

Figure 66

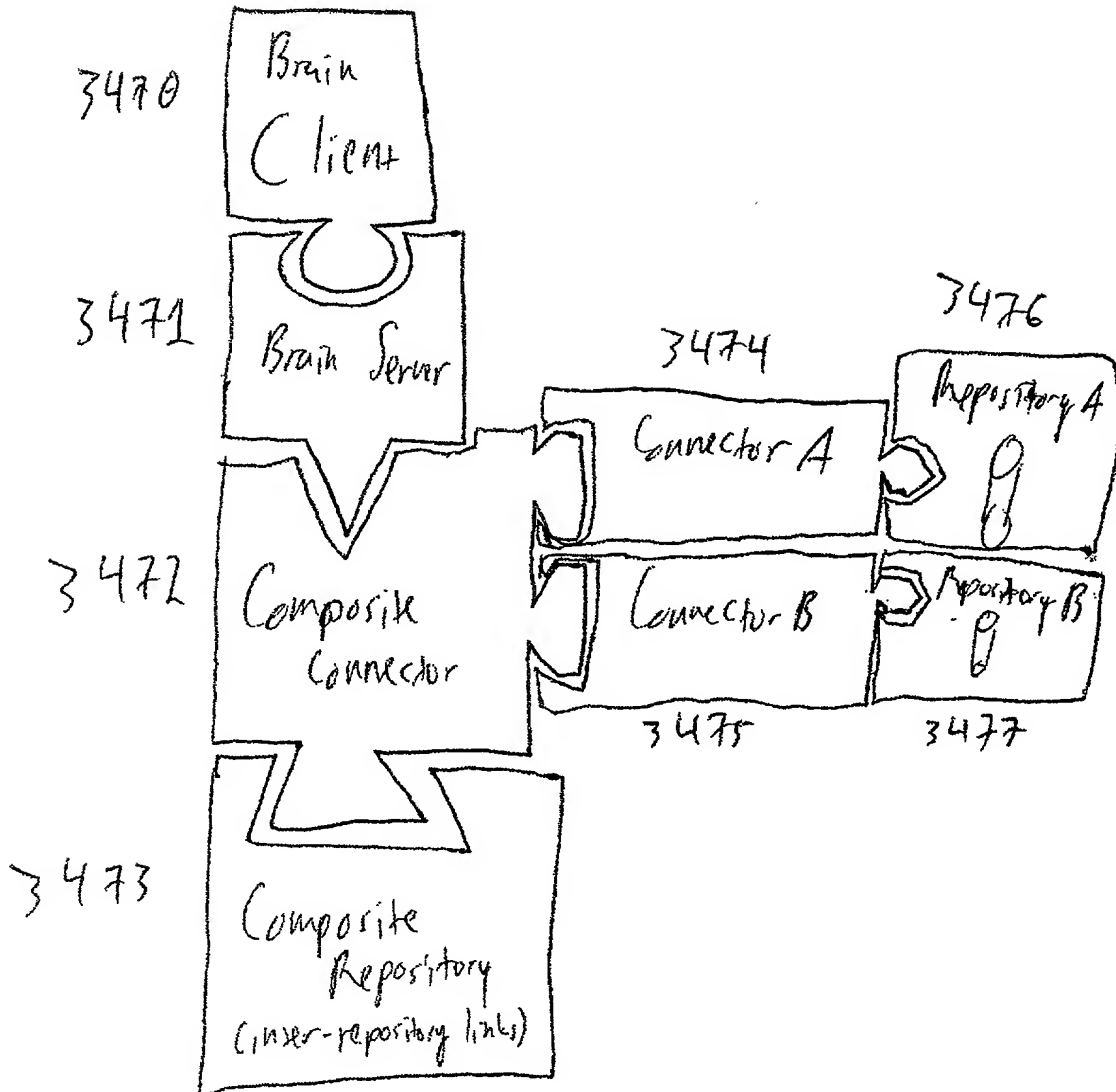
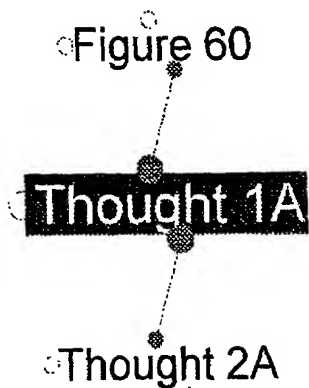
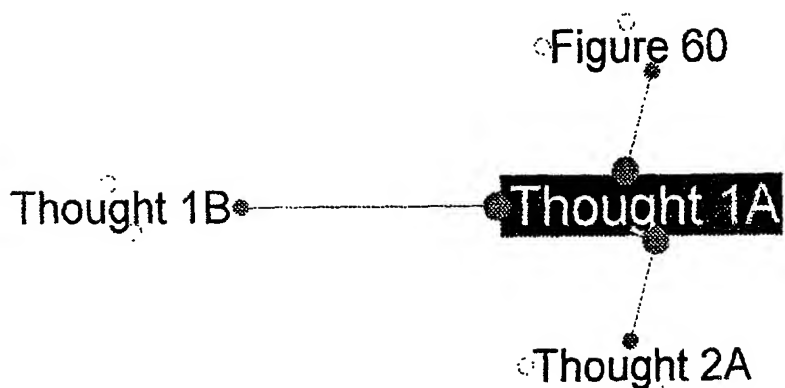


Figure 67

3480



3481



1000152-113001

3482

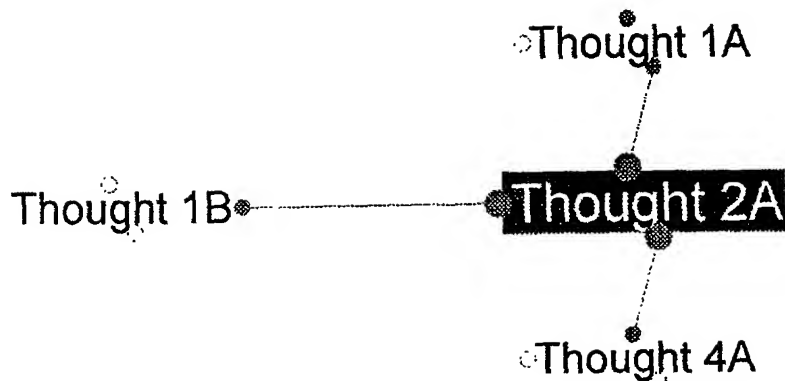


Figure 68

Composite System – Activating a New Thought

	Brain Client (3470)	Brain Server (3471)	Composite Connector (3472)	Connector A (3474)	Connector B (3475)
3490	Thought 1A is active				
3491	Click Thought 2A				
3492		What thoughts are related to Thought 2A?			
3493		Contact Connector			
3494			Translate Thought ID "2A" into		
3495			Repository A, "ID 2"		
3496				Query Repository A for links to Thought "ID 2"	
3497				Return from Repository: "ID 4, Child"	
3498			Translate link from Connector A "4, Child" as ID "4A, Child"		
3499			Put ID "4A" onto list of related thoughts		
3500			Check Composite Repository for cross-repository links to ID "2A"		
3501			Return from Composite Repository "1B, Jump"		
3502			Add "1B, Jump" to list of related thoughts		
3503			Return List		
3504		Return List			
3505	Activate 2A as new central thought, with Thought ID "1B" as a Jump, and Thought ID "4A" as a Child.				
3506		Repeat Procedure for Siblings, Grandchildren, if applicable.			

Figure 69

Composite System – Making a Link

	Brain Client (3470)	Brain Server (3471)	Composite Connector (3472)	Connector A (3474)	Connector B (3475)
3510	Thought 1A is Active				
3511	User draws jump from Thought 1A to Thought 1B.				
3512		Make Jump Link Thought 1A to Thought 1B			
3513		Contact Composite Connector			
3514			Translate Thought ID "1A" into Repository A, "ID 1"		
3515			Translate Thought ID "1B" into Repository B, "ID 1"		
3516			Same Repository?		
3517			No ==> Add link to Composite Repository.		
3518			Yes==> Contact Connector A or Connector B, as fit.		
3519		Success Reported			
3520	Modify Display to Plex 3481				

10007437 257/0007

Figure 70
Composite System -- Creating a Thought

	Brain Client (3470)	Brain Server (3471)	Composite Connector (3472)	Connector A (3474)	Connector B (3475)
3521	Thought 1A is Active				
3522	User creates child Thought				
3523		Create Child			
3524		Contact Composite Connector			
3525			Translate Thought ID 1A into Repository A "ID 1".		
3526			Any special rules for children of thoughts of the type of "ID 1"?		
3527			No ==> Send to Connector A. Yes ==> Send to Repository B.		
				If requested, add to Repository A. Return "success" and thought type to Client.	
3528					If requested, add to Repository B. Update Composite Connector
3529			Return results to Server; Update Composite Repository if Child was placed in different repository than parent.		
		Return Results			
	Modify Display to Plex 3484, conform contents to any special rules.				

Plex 3484

Figure 71

Brain to Brain Links System

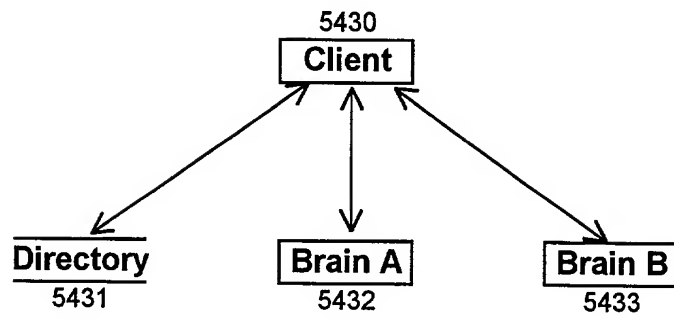


Figure 72
Activating a Thought

	Client 5430	Directory Server 5431	Brain A Server 5432	Brain B Server 5433
5440	Plex 3482, Click 2A			
5441	Check local directory cache for location of Brain Server A			
5442	Found			
5443	Request to Brain A re: thought info for thought 2			
5444			Query DB for info and links re thought 2.	
5445			Links from 2 to 1B is found	
5446			Return list	
5447	Check results for for inter-Brain links.			
5448	Find 1B			
5449	Check local directory cache for location of Brain Server B.			
5450	Not found.			
5451	Query: Where is B?			
5452		Look up location of B		
5453		Return		
5454	Add B's location to local directory cache			
5455	Request to Brain B for thought info for thought 1			
5456				Query for info
5457				Return
5458	Change to display Plex 3482			

Footnote 254000

Figure 65

Figure 73

Linking a Thought (assumes both are onscreen)

Client 5430	Directory Server 5431	Brain A Server 5432	Brain B Server 5433
5460 Link 1A and 1B (jump) One thought may be active in the plex the other already as a pin or in the past thought list (both are multi-brain enabled)			
5461 Check local dir cache for location of A			
5462 Found			
5463 Send message to A describing link from 1 to 1B (relationship, thought id, brain id "jump, unique brain id of B")			
5464		Store link from 1 to 1B	
5465 Check dir cache for B			
5466 Found			
5467 Send message to B describing link from 1 to 1A ("jump, unique brain id of A")			
5468			Store link from 1 to 1B
5469 Display link			

Figure 74

Creating a Thought

	Client 5430	Directory Server 5431	Brain A Server 5432	Brain B Server 5433
5470	Create new thought from 1A (jump)			
5471	Check local dir cache for location of A			
5472	Found			
5473	Send message to A describing new thought from 1 (relationship, name/content "jump, alan")			
5474			Create new thought and store content	
5475			Store link between id 1 and new id	
5476			Return new thought and link info	
5477	Display			

Figure 74

Figure 75

Finding Other Brains

	Client	Directory Server	Brain C Server
5480	Request list of Brains or search for a Brain		
5481		Look for Brains that match request	
5482		Return results (Brain name, id, location)	
5483	Add locations to cache		
5484	Display results in a window.		
5485	User selects a Brain (Brain C)		
5486	Look up Brain in cache		
5487	Ask for starting thought		
5488			Query DB for info and links.
5489			Return
5490	Display		

Finding Thoughts in Other Brains

	Client	Directory Server	Brain A Server	Brain B Server	Brain C Server
5491	Search for a Thought (may specify a list of Brains to search in via a list obtained from the directory server, or search a default set)				
5492	Ask directory server to perform search				
5493		Query each Brain server			
5494			Check for matching thoughts	Check for matching thoughts	Check for matching thoughts
5495			Return list	Return list	Return list
5496		Compile results into a single list with all info (Brain id & location, thought info & id)			
5497	Add locations to cache				
5498	Display results in a window.				
5499	User selects a Thought				
5500	Activate thought				

Figure 76

File Structure for Multiple Files Per Thought

Single Document Architecture

5510

The Headcase

Thought ID	Name	Type	Property	Document	
5511	1	Thought 1	-	-	doc_r
5512	2	Thought 2	-	-	doc_n
5513	3	Thought 3	-	-	doc_m
5514	4	Thought 4	-	-	doc_q

Multiple Document Architecture

5515

Thought Table

Thought ID

Name

type

property

5516

1

Thought 1

-

-

5517

2

Thought 2

-

5518

3

Thought 3

-

-

5519

4

Thought 4

-

-

5527

Document Table

<i>Doc ID</i>	<i>Document Location</i>	
5528	r	c:\doc_r
5529	n	c:\doc_n
5530	m	c:\doc_m
5531	q	c:\doc_q
5532	z	c:\doc_z

5520

Link Table

Thought ID

Doc ID

5521

1

r

5522

1

n

5523

2

m

5524

3

q

5525

4

z

5526

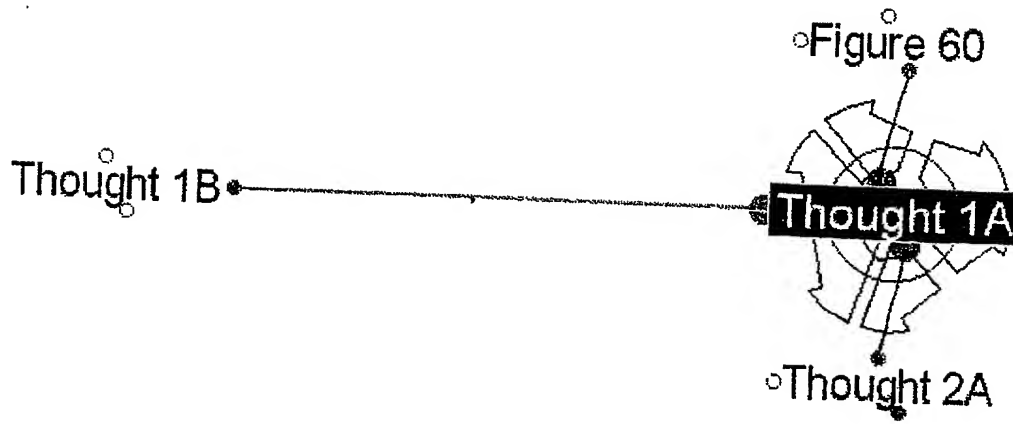
4

n

Downloaded from

Figure 77

Before User Interaction



After User Interaction

